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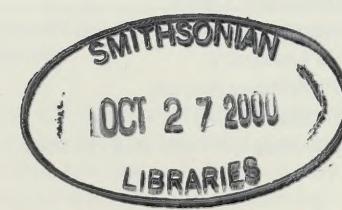
## A Type Catalog of Fossil Invertebrates (Mollusca: Gastropoda) in the Yale Peabody Museum

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**A Type Catalog of Fossil Invertebrates  
(Mollusca: Gastropoda)  
in the Yale Peabody Museum**

**Russell D. White, Brent H. Horstman,  
Karen E. McFadden and Laura K. Skorina**

(Received 9 June 1998)

**Abstract**

Type material for 373 nominal species of fossil gastropods is in the Invertebrate Paleontology Collections of Yale University's Peabody Museum of Natural History. Primary types for 193 nominal species include 164 holotypes, 191 syntypes (representing 29 nominal species) and 4 lectotypes. Secondary types for 79 nominal species include 228 paratypes (representing 75 nominal species) and 9 paralectotypes (representing 4 nominal species). Tertiary types of 172 nominal species include 1034 hypotypes. Most types are from St. Louis (Missouri), Chazy (New York), Zorritos (Peru) and Syria and have been described by T.D.A. Conrad, J. B. Knight, E.T. Nelson and P.E. Raymond.

**Key Words**

Type Catalog, Gastropoda, Yale Peabody Museum, St. Louis, Chazy, Peru, Syria, T.D.A. Conrad, J.B. Knight, E.T. Nelson, P.E. Raymond.

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**Introduction**

This catalog lists all known fossil gastropod types in the Invertebrate Paleontology Collections housed in Yale University's Peabody Museum of Natural History. This is the ninth in a series of type catalogs of fossil invertebrates and is a product of an ongoing computerization project to improve the accessibility of the type collections.

Eight type specimens are missing and cannot be located. The collections have been thoroughly searched by the curatorial staff in the 1960s and 1990s and it is believed that these specimens are permanently lost. Missing specimens are indicated with a footnote, and any information on their whereabouts would be greatly appreciated.

**Organization**

Specimens are listed under the originally described binomen; genera and species within genera are indexed alphabetically. Each entry includes the catalog number used by the Division of Invertebrate Paleontology prefixed with the abbreviation YPM and the type status of the original designation, followed by all known references to that specimen. Any subsequent designations are listed under the original designation and are cross-referenced in the body of the text. Locality descriptions follow each entry or set of entries for each binomen. Errors and inconsistencies are footnoted at the bottom of each binomen.

The type designations used are holotype, syntype and lectotype for name bearers; paratype and paralectotype for secondary

types; hypotype is used for all tertiary types. Name bearers and secondary types are defined as used in the *International Code of Zoological Nomenclature* (ICZN 1985). Tertiary types or hypotypes are treated here as any described, figured or measured specimen used in a publication to augment the knowledge of a previously defined species, any specimen used in an original species description but not explicitly designated a primary or secondary type, or any referenced specimen that cannot be placed unequivocally in a known species (e.g., *Hormotoma*? sp. A).

Locality descriptions follow each entry or set of entries with identical locality data. The locality information includes the stratigraphy, geography, collector and date. Stratigraphy has been standardized using *Stratigraphic Nomenclature Databases for the United States, its Possessions and Territories* (MacLachlan et al., 1992).

## Catalog of Gastropoda

### *Aclisina robusta* (Stevens)

HYPOTYPE YPM 13009

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.10, tbl.(p.10), pl.1, f.2a.

=*Donaldina robusta*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

HYPOTYPE YPM 13114

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.10, tbl.(p.10), pl.1, f.2e.

=*Donaldina robusta*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

HYPOTYPE YPM 13115

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.10, pl.1, f.2d.

=*Donaldina robusta*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

HYPOTYPE YPM 13116

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.10, pl.1, f.2b.

=*Donaldina robusta*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

HYPOTYPE YPM 13117

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.10, tbl.(p.10), pl.1, f.2f.

=*Donaldina robusta*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

HYPOTYPE YPM 25806<sup>a</sup>

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.10, tf.1i.

=*Donaldina robusta*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

### *Aclisina stevensana* (Meek and Worthen)

HYPOTYPE YPM 13007

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.8, tbl.(p.8), pl.1, f.1b.

=*Donaldina stevensana*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

HYPOTYPE YPM 13008

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.8, tbl.(p.8), pl.1, f.1a.

=*Donaldina stevensana*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

HYPOTYPE YPM 13118

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.8, pl.1, f.1f.

=*Donaldina stevensana*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

HYPOTYPE YPM 13119

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.8, pl.1, f.1c.

=*Donaldina stevensana*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee

Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13120

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.8, pl.1, f.1g.

=*Donaldina stevensana*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13121

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.8, pl.1, f.1e.

=*Donaldina stevensana*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

HYPOTYPE YPM 13122

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.8, pl.1, f.1d.

=*Donaldina stevensana*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

HYPOTYPE YPM 13124<sup>a</sup>

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.8, pl.1, f.1h.

=*Donaldina stevensana*. Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.57.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

#### ***Actaeonina minuta* (Stevens)**

HYPOTYPE YPM 13753

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, tbl.(p.199), pl.28, f.3j.

HYPOTYPE YPM 13880

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, tbl.(p.199), pl.28, f.3m.

HYPOTYPE YPM 13881

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3h.

HYPOTYPE YPM 13882

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3a.

HYPOTYPE YPM 13883<sup>a</sup>

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3d.

HYPOTYPE YPM 32907

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, tbl.(p.199), pl.28, f.3n.

HYPOTYPE YPM 32908

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3o.

HYPOTYPE YPM 32909

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3p.

HYPOTYPE YPM 32910

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, tbl.(p.199), pl.28, f.3i.

HYPOTYPE YPM 32911

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3k.

HYPOTYPE YPM 32912

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, tbl.(p.199), pl.28, f.3l.

HYPOTYPE YPM 32913

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3b.

HYPOTYPE YPM 32914

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3c.

HYPOTYPE YPM 32915

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3e.

HYPOTYPE YPM 32916

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3f.

## HYPOTYPE YPM 32917

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.198, pl.28, f.3g.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

***Anchura pontana* Stephenson**

## HOLOTYPE YPM 14853

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.401, pl.5, f.15, 16.

## PARATYPE YPM 14854

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.401.

Late Cretaceous. Loose boulder brought up in a fisherman's trawl, from a depth of 200 fathoms, eastern part of Banquereau bank, off Sable Island, Nova Scotia, Canada. Collector: Olson, L.

***Anematina mellaria* Tyler**

## HOLOTYPE YPM 16481

Tyler, J.H. 1965. J. Paleont. v.39, n.3, p.345, pl.47, f.31.

Middle Devonian, Hamilton Grp, Ludlowville Fm, Centerfield Limestone Mbr. Bioherm facies, Four Mile Dam on Thunder Bay River, SW SE sec007T31NR08E, Alpena Co., Michigan, USA. Collector: Cloud, P.E. and Yang, Z., 1938.

***Angyomphalus minutus* (Sayre)**

## HYPOTYPE YPM 13100

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.55, tbl.(p.55), pl.8, f.5b, 5c.

## HYPOTYPE YPM 32923

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.55.<sup>a</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>Cited as YPM 13100.

***Anomphalus umbilicatus* Knight**

## HOLOTYPE YPM 13862

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, pl.11, f.6e.<sup>a</sup>

## PARATYPE YPM 13875

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, tbl.(p.54), pl.11, f.6a, 6b, 6c.

PARATYPE YPM 13889<sup>b</sup>

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, pl.12, f.1.

## PARATYPE YPM 32932

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, tbl.(p.54), pl.11, f.6d, 6g, 6j.<sup>a</sup>

## PARATYPE YPM 32933

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, tbl.(p.54), pl.11, f.6f, 6i.<sup>a</sup>

## PARATYPE YPM 32934

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, tbl.(p.54), pl.11, f.6h.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>Specimen B in the table on p. 54, a paratype (YPM 32932), is incorrectly cited as the holotype; specimen C in the same table (YPM 32933) is incorrectly cited as fig. 6e on Plate 11.

<sup>b</sup>This specimen is a thin section.

***Antiplanes* sp.**

## HYPOTYPE YPM 6321

Dall, W.H. 1925 Am. J. Sci. v.210, p.215.

= (?) *Colus* sp. MacNeil, F.S. 1957. U.S. Geol. Surv. Prof. Pap. n.294-C, p.114.

Miocene or Pliocene. Banquereau bank, off Sable Island, Nova Scotia, Canada. Collector: Crowell, H.

***Aphera peruana* Nelson**

## HOLOTYPE YPM 525

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.190, pl.6, f.3.

=*Cancellaria (Aphera) peruana*. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.42, pl.4, f.13.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Araeonema* ? sp.**

HYPOTYPE YPM 13860

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.52, pl.9, f.4.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Araeonema virgatum* Knight**

HOLOTYPE YPM 13859

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.52, pl.(p.52), pl.9, f.3c,3e.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.42, pl.54, f.3a.

PARATYPE YPM 13869

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.52, pl.9, f.3a.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.42.

PARATYPE YPM 13870<sup>a</sup>

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.52, pl.12, f.8.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.42.

PARATYPE YPM 32924

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.52, pl.9, f.3b.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.42, pl.54, f.3c.<sup>b</sup>

PARATYPE YPM 32925

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.52, pl.9, f.3d.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.42, pl.54, f.3b.<sup>b</sup>

PARATYPE YPM 32926

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.52, pl.(p.52), pl.9, f.3f.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.42.<sup>b</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

<sup>b</sup>Cited as YPM 13869.

***Archinacella deformata* (Hall)**

HYPOTYPE YPM 26956

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.172, pl.46, f.3.

Middle Ordovician, Aylmer Sandstone. Aylmer, Quebec, Canada. Collector: Raymond, P.E.

***Archinacella?* *propria* Raymond**

HOLOTYPE YPM 26957

Raymond, P.E. 1906b. Ann. Carnegie Mus. v.3, n.4, p.575.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.172, pl.26, f.7,8.

Middle Ordovician, Chazy Grp. From ledge in field N of Duprey road to Tracy Brook (middle of section of Brainard and Seeley), near Chazy, Clinton Co., New York, USA. Collector: Raymond, P.E., 1903.

***Architectonica (Architectonica) nobilis nobilis* Roding**

See *Solarium sexlineare* Nelson.

***Architectonica (Architectonica) sexlinearis* (Nelson)**

See *Solarium sexlineare* Nelson.

***Argobuccinum zorritense* Nelson**

SYNTYPE YPM 504

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.196, pl.7, f.1.

=*Nassa zorritensis*. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.48, pl.2, f.1,2.

=*Buccinanops (Perunassa) zorritensis*.  
Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.169, pl.20, f.1,5.

=*Perunassa zorritensis*. Cernohorsky, W.O. 1984. Bull. Auck. Inst. Mus. v.14, p.27.

=*Calophos ? zorritensis*. Allmon, W.D. 1990. Bull. Am. Paleont. v.99, n.335, p.78.

SYNTYPE YPM 597

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.196, pl.7, f.2.

=*Nassa zorritensis*. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.48.

=*Buccinanops (Perunassa) zorritensis*.  
Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.169.

=*Calophos ? zorritensis*. Allmon, W.D. 1990. Bull. Am. Paleont. v.99, n.335, p.78.

SYNTYPE YPM 598-600, 2126-2136

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.196.

=*Nassa zorritensis*. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.48.

=*Buccinanops (Perunassa) zorritensis*.  
Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.169.

=*Perunassa zorritensis*. Cernohorsky, W.O. 1984. Bull. Auck. Inst. Mus. v.14, p.27.

=*Calophos ? zorritensis*. Allmon, W.D. 1990. Bull. Am. Paleont. v.99, n.335, p.78.

Tertiary, Miocene, Zorritos Fm, Variegated Zorritos Mbr. Small block of down-faulted beds exposed near the mouth of Quebrada Tucillal just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Aulopea nelsoni* Dunbar**

HOLOTYPE YPM 9725

Dunbar, C.O. 1920. Trans. Conn. Acad. Arts Sci. v.23, p.146, pl.4, f.14,16.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.48, pl.86, f.1a,1b.

Early Devonian, Linden Grp, Rockhouse Shale. Float 10-20 ft above base of Rockhouse, on Horse Creek, about 5 mi W of Lowryville, bluff about 200

yd above clubhouse, Hardin Co., Tennessee, USA. Collector: Dunbar, C.O., 1916.

***Auriptygma simplex* Knight**

HOLOTYPE YPM 13161

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.225, pl.(p.225), pl.25, f.3f.

PARATYPE YPM 13196

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.225, pl.25, f.3b.

PARATYPE YPM 13197

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.225, pl.(p.225), pl.25, f.3a.

PARATYPE YPM 32873

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.225, pl.25, f.3c.

PARATYPE YPM 32874

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.225, pl.(p.225), pl.25, f.3e.

PARATYPE YPM 32875

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.225, pl.(p.225), pl.25, f.3d.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feejee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Auriptygma* sp.**

HYPOTYPE YPM 28344

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.39, pl.4, f.16.

Late Silurian, Pridoli, Stonehouse Fm. In place, 3805-3850 ft elevation, McAdam Brook, Coast Section, Arisaig Point, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Naylor and Field, 1959.

***Auriptygma subtilistriatum* Knight**

HOLOTYPE YPM 13160

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.225, pl.(p.225), pl.25, f.1a.

PARATYPE YPM 13198

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.225, pl.(p.225), pl.25, f.1b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Auriptygma virgatum* Knight**

HOLOTYPE YPM 13162

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.226, tbl.(p.226), pl.25, f.2b.

=*Leptptygma virgatum*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.170, pl.94, f.6.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13194

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.226, pl.25, f.2d.

=*Leptptygma virgatum*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.170.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13195

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.226, tbl.(p.226), pl.25, f.2a.

=*Leptptygma virgatum*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.170.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13207<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.226, pl.27, f.3.

=*Leptptygma virgatum*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.170.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale

exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 32876<sup>b</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.226, pl.25, f.2c.

=*Leptptygma virgatum*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.170.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

<sup>b</sup>A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Avellana pelagana* Stephenson**

HOLOTYPE YPM 14857

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.403, pl.5, f.19,20.

Richards, H.G. and R.C. Ramsdell 1962 Bull. New Jersey Bur. Geol. Topo. n.61, pt.2, p.93.

Late Cretaceous. Loose boulder brought up in a fisherman's trawl, from a depth of 200 fathoms, eastern part of Banquereau bank, off Sable Island, Nova Scotia, Canada. Collector: Olson, L.

***Babylonites carinatus* Yochelson**

HYPOTYPE YPM 26229

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.238.

Middle Permian, Word Fm. Fourth limestone, about 0.5 mi NE of Willis Ranch, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 26231

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.238.

Middle Permian, Word Fm. Second limestone, 0.5 mi N of hill 5611, Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 50147

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.238.

Middle Permian, Word Fm. Third limestone member, from bed below uppermost white limestone, at E end of range N of Leonard Mountain, on the N slope of hill 5453, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 50148A, 50148B

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.238.

Middle Permian, Word Fm. Fourth limestone member, on line of Section 24, W of Comanche outlier N of Word Ranch, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

***Babylonites turritus* Yochelson**

HYPOTYPE YPM 26226A–26226C

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.237.

Early Permian, Leonardian, Leonard Fm. Section 27, 0.25 mi E of hill 5157, in arroyo, Glass Mountains, Pecos Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 26227

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.237.

Early Permian, Leonardian, Leonard Fm. 0.2 to 0.3 mi NE of Split Tank, 1.5 mi NE of Word Ranch house, also from the same horizon about 1 mi ENE of Split Tank; the Tank is on the line of Section 26, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 26228

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.237.

Early Permian, Leonard Fm. Middle Leonard, about 1.25 mi NE of hill 5021 to a little E of Clay Slide, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 50149A–50149C

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.237.

Pennsylvanian, Gaptank Fm. Between conglomerates 4 and 5 (bed 10 of R.E. King), 1-ft-thick *Isogramma* bed, capping a low hill in front of scarp, 1.25 mi E of N-S road and 2 mi slightly E of S from Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Dunbar, C.O. and Morris, P.A., 7/20/1941.

***Baylea capertoni* (Beede)**

HYPOTYPE YPM 15327

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.303, pl.4, f.3a.<sup>a</sup>

HYPOTYPE YPM 15328

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.303, pl.4, f.3b.<sup>b</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of Dozier, S side, sec 78, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

<sup>a</sup>The specimen figured on pl.4, f.3a is a wax cast of a natural mold.

<sup>b</sup>The wax cast figured on pl.4, f.3b is missing.

***Bellerophon laurentinus* Twenhofel**

HOLOTYPE YPM 10375

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.244, pl.25, f.7,8.

Ordovician, Vaureal Fm, Vaureal zone 1. Near White Cliff, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Bellerophon ornatus* Northrop**

HOLOTYPE YPM 13328

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.208, pl.25, f.5,6.

Middle Silurian, Niagaran, West Point Fm. Lower pink limestone, Reddish Point, W of Gascons, Quebec, Canada. Collector: Schuchert, C., 8/1923.

***Bellerophon* sp.**

HYPOTYPE YPM 265

McLearn, F.H. 1924. Geol. Surv. Can. Mem. 137, p.141, pl.20, f.28,29.<sup>a</sup>

=*Pharetrolites murchisoni* d'Orbigny. HYPOTYPE. Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.12, pl.1, f.24.<sup>a</sup>

HYPOTYPE YPM 13318

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.208, pl.21, f.8,9.

Middle Silurian, Niagaran, Bouleaux Fm. A little lower than Peabody locality B0865, NE side of West Point, Quebec, Canada. Collector: Schuchert, C., 8/1923.

HYPOTYPE YPM 27271

Bell, W.A. 1929. Mem. Canada Geol. Surv. n.155, p.172, pl.30, f.6,6a.

Late Mississippian, Windsor Grp. Zone 19, Avon River, Windsor, Hants Co., Nova Scotia, Canada. Collector: Schuchert, C., 1905.

<sup>a</sup>Incorrectly cited as YPM 462.

***Brachytomaria* sp.**

HYPOTYPE YPM 28326

Peel, J.S. 1975. Can. J. Ea. Sci. v.12, n.9, p.1529, pl.1, f.7.

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.27.

Late Silurian, Pridoli, Stonehouse Fm. Zone c of McLearn, along shore, just SW of Stonehouse Brook, 2.4 mi SW of Arisaig Point, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Twenhofel, W.H., 1908.

***Brochidium morrissi* Yochelson**

HYPOTYPE YPM 50061

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.255.

Pennsylvanian, Gaptank Fm. Between conglomerates 4 and 5 (bed 10 of R.E. King), 1-ft-thick *Isogramma* bed, capping a low hill in front of scarp, 1.25 mi E of N-S road and 2 mi slightly E of S from Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Dunbar, C.O. and Morris, P.A., 7/20/1941.

***Bucania elliptica* Ulrich and Scofield**

HYPOTYPE YPM 17276A

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7, pl.3, f.13,14.

HYPOTYPE YPM 17276B

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7, pl.3, f.15.

HYPOTYPE YPM 17276

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7.

Late Ordovician. Loose blocks, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Ross, R., 1938.

HYPOTYPE YPM 17277

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7.

Late Ordovician. 45 ft above tide, Cloud's locality 7, NW end of Sutton Island, Canada. Collector: Cloud, P.E., 8/9/1939.

HYPOTYPE YPM 17278

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7.

Late Ordovician. Loose blocks, seemingly from Cloud's bed H, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/4/1939.

HYPOTYPE YPM 17279

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7.

Late Ordovician. Bed H, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

HYPOTYPE YPM 17280

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7.

Late Ordovician. Loose blocks, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Ross, R., 1938.

HYPOTYPE YPM 17281

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7.

Late Ordovician. Layer 55 ft above sea level, SW side of Sutton Island, Canada. Collector: Cloud, P.E., 8/8/1939.

HYPOTYPE YPM 17282

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7.

HYPOTYPE YPM 42991

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7.<sup>a</sup>

Late Ordovician. Bed H, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

<sup>a</sup>Cited as 17261A on p.7.

***Bucania ellisensis* Twenhofel**

HOLOTYPE YPM 10372

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.244, pl.25, f.9,10.

Ordovician, Ellis Bay Fm, Ellis Bay zone 4. Cliff 1 mi E of Junction Cliff, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Bucania minganensis* Twenhofel**

HOLOTYPE YPM 26274

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.56, pl.8, f.7.

HYPOTYPE YPM 26275

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.56, pl.8, f.8.<sup>a</sup>

Ordovician, Mingan Fm. Lower 50 or 60 ft of the Mingan Fm on Quarry or Sea Cow Island or Clearwater Point, Gaspe Peninsula, Quebec, Canada. Collector: Twenhofel, W.H.

<sup>a</sup>Incorrectly referred to as 26274 on pl.8, f.8.

***Bucania* sp.**

HYPOTYPE YPM 25919

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.102, pl.16, f.10.

HYPOTYPE YPM 25920

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.102, pl.16, f.11.

Late Ordovician, Reedsville Fm. Originally stained sandstone, biogenic reworking, roadcut 4.5 mi S of Loysburg, along PA Rt. 36, Bedford Co., Pennsylvania, USA. Collector: Bretsky, P.W., 6/1966.

HYPOTYPE YPM 25921

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.102, pl.17, f.1.

HYPOTYPE YPM 25922

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.102, pl.17, f.2.

HYPOTYPE YPM 25923

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.102, pl.17, f.3.

Late Ordovician, Martinsburg Fm. Siltstone, ferruginous stain, roadcut about 12 mi W of Franklin, along US Rt. 33, Pendleton Co., Virginia, USA. Collector: Bretsky, P.W., 8/1965.

***Bucania sulcatina* (Emmons)**

HYPOTYPE YPM 8012

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.194, tf.5.

Middle Ordovician, Chazy Grp. Plattsburgh, Clinton Co., New York, USA.

***Buccinanops (Perunassa) zorritensis* (Nelson)**

See *Argobuccium zorritense* Nelson.

***Bulimorpha bulimiformis* (Hall)**

See *Soleniscus (Bulimorpha) bulimiformis* (Hall).

***Calophos* ? *zorritensis* (Nelson)**

See *Argobuccinum zorritense* Nelson.

***Callopoma lineatum* Nelson**

HOLOTYPE YPM 538

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.186, pl.6, f.2.

=*Turbo bellii* Spieker. HOLOTYPE. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.91, pl.4, f.11.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tusillal, just N of the Zorritos school house, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Cancellaria (Aphera) peruana* (Nelson)**

See *Aphera peruana* Nelson.

***Cancellaria bradleyi* Nelson**

SYNTYPE YPM 521

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.192, pl.6, f.8.

=*Cancellaria (Cancellaria) bradleyi*. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.156, pl.17, f.8.

SYNTYPE YPM 31383

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.192.

=*Cancellaria (Cancellaria) bradleyi*. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.156.

SYNTYPE YPM 31754

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.192, pl.6, f.9.

=*Cancellaria (Cancellaria) bradleyi*. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.156, pl.17, f.6.

SYNTYPE YPM 31755

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.192.

=*Cancellaria (Cancellaria) bradleyi*. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.156.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Cancellaria (Cancellaria) bradleyi* Nelson**  
See *Cancellaria bradleyi* Nelson.

***Cancellaria (Euclia) larkinii* Nelson**  
See *Cancellaria larkinii* Nelson.

***Cancellaria (Euclia) triangularis* Nelson**  
See *Cancellaria triangularis* Nelson.

***Cancellaria larkinii* Nelson**

SYNTYPE YPM 522

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.192, pl.6, f.7.

=*Cancellaria (Euclia) larkinii*. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.159.

SYNTYPE YPM 31384

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.192.

=*Cancellaria (Euclia) larkinii*. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.159, pl.17, f.5,7.<sup>a</sup>

SYNTYPE YPM 31385, 31386

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.192.

=*Cancellaria (Euclia) larkinii*. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.159.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

<sup>a</sup>Incorrectly cited as paratype.

***Cancellaria (Pyruclia) spatiosa* Nelson**  
See *Cancellaria spatiosa* Nelson.

***Cancellaria (Pyruclia) schucherti* Olsson**

HOLOTYPE YPM 511

Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.162, pl.17, f.3.

PARATYPE YPM 31387

Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.162, pl.17, f.4.

PARATYPE YPM 31388, 31389

Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.162.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Cancellaria spatiosa* Nelson**

SYNTYPE YPM 523

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.191.

=*Cancellaria (Pyruclia) spatiosa*. LECTOTYPE. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.161, pl.17, f.1.

SYNTYPE YPM 31390

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.191.

=*Cancellaria (Pyruclia) spatiosa*.

PARALECTOTYPE. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.161, pl.17, f.2.

SYNTYPE YPM 31391, 31392

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.191.

=*Cancellaria (Pyruclia) spatiosa*.

PARALECTOTYPE. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.161.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Cancellaria triangularis* Nelson**

HOLOTYPE YPM 524

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.191.

=*Cancellaria (Euclia) triangularis*. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.158, pl.18, f.1,2.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Cassianella decussata* Münster**

HYPOTYPE YPM 28142

Jackson, R.T. 1890. Mem. Boston Soc. Nat. Hist. v.4, n.8, p.332, tf.35.

Late Triassic, Carnian. St. Cassian, Tyrol, Austria.

***Ceratopea ankylosa* Cullison**

PARATYPE YPM 17159

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.62, pl.31, f.13-15.

Early Ordovician, Cotter Fm. Residual, red, porous, drusy chert, upper Cotter, E side of road at about an elevation of 675 ft, center NE sec07T19NR15W, Marion Co., Arkansas, USA. Collector: Cullison, J.S.

***Ceratopea capuliformis* Oder**

HYPOTYPE YPM 17158

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.63, pl.31, f.7-9.

Early Ordovician, Jefferson City Grp, Rich Fountain Fm. *Jeffersonia*, *Ozarkocoelia*, and *Ceratopea capuliformis* zone, lower Rich Fountain Fm, approx. 44 ft above top of Roubidoux, elevation 620 ft, W SE sec18T39NR06E, Jefferson Co., Missouri, USA. Collector: Cullison, J.S.

***Ceratopea jenkinensis* Cullison**

PARATYPE YPM 17157

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.61, pl.31, f.4-6.

Early Ordovician, Cotter Fm. Elevation approx. 650 ft, on W.P.A. road in side ditch on the hill slope E of Fallen Ash Creek, SE sec14T19NR15W, Marion Co., Arkansas, USA. Collector: Cullison, J.S.

***Ceratopea supraplana* Cullison**

HOLOTYPE YPM 17161

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.64, pl.31, f.25-27.

Early Ordovician, Theodosia Fm, Blackjack Knob Mbr. Residual chert, *Ceratopea jonesi* and *Orospira gainsvillensis* zone, near top of hill W of Theodosia, E of Lutie, elevation 860 ft, Thornfield quadrangle, SW SW sec18T22NR15W, Ozark Co., Missouri, USA. Collector: Cullison, J.S.

***Ceratopea tennesseensis* Oder**

HYPOTYPE YPM 17162

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.62, pl.31, f.38.

Early Ordovician, Cotter Fm. Massive, gray granular dolomite, *Jeffersonia jennii* and *Campbelloceras simplex* zone of lower Cotter, road from MO Hwy 25 down to Crystal City Glass Workers Country Club, SW sec27T40NR06E, Jefferson Co., Missouri, USA. Collector: Cullison, J.S.

HYPOTYPE YPM 17413<sup>a</sup>

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.62.<sup>b</sup>

Early Ordovician, Cotter Fm. *Ceratopea tennesseensis* zone of the lower Cotter, on E side of road approx. halfway up hill and 42 ft above sandstone layer, E E S of the 2 mi N and S sec6T39NR6E, Jefferson Co., Missouri, USA. Collector: Cullison, J.S.

<sup>a</sup>A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

<sup>b</sup>Incorrectly cited as YPM 17188.

***Ceratopea torta* Cullison**

HOLOTYPE YPM 17160

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.63, pl.31, f.22-24.

Early Ordovician, Theodosia Fm. Lower Theodosia, elevation 1000 ft, S of road junction, center W sec02T21NR25W, Barry Co., Missouri, USA. Collector: Cullison, J.S.

***Ceraunocochlis blatta* Knight**

HOLOTYPE YPM 13164

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.203, tbl.(p.203), pl.21, f.2a,2b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13175

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.203, tbl.(p.203), pl.21, f.2c,2d.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Ceraunocochlis fulminula* Knight**

HOLOTYPE YPM 13163

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.203, tbl.(p.203), pl.21, f.1a,1b.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.74, pl.92, f.7a.

PARATYPE YPM 13174

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.203, tbl.(p.203), pl.21, f.1c,1d.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.74, pl.92, f.7b.

PARATYPE YPM 13205<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.203, pl.27, f.1.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.74.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

***Chenopus syriacus* Conrad**

SYNTYPE YPM 17038, 24848

Conrad, T.A. 1852. Washington, D.C. (U.S.) Natl. Obs. p.220.

Beecher, C.E. 1900. Am. J. Sci. v.159, p.177.<sup>a</sup>

Cretaceous. Mount Lebanon [Lebanon Range], Lebanon.

<sup>a</sup>Incorrectly cited as paratype.

***Chenopus turriculoides* Conrad**

SYNTYPE YPM 17037, 24915–24925

Conrad, T.A. 1852. Washington, D.C. (U.S.) Natl. Obs. p.220.

Beecher, C.E. 1900. Am. J. Sci. v.159, p.177.<sup>a</sup>

Cretaceous. Mount Lebanon [Lebanon Range], Lebanon.

<sup>a</sup>Incorrectly cited as paratype.

**(?)*Colus* sp.**

See *Antiplanes* sp.

***Conus bocapanensis* Spieker**

See *Conus* sp. ind. A.

***Conus cacuminatus* Spieker**

See *Conus* sp. ind. B.

***Conus molis* var. *bravoii* Spieker**

See *Conus* sp. ind. C.

***Conus* sp. ind. A**

HYPOTYPE YPM 518

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.194.

=*Conus bocapanensis* Spieker. SYNTYPE. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.38, pl.1, f.3.

HYPOTYPE YPM 31396, 31483–31513

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.194.

=*Conus bocapanensis* Spieker. SYNTYPE. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.38.

Tertiary, Miocene, Zorritos Fm, Upper Zorritos Mbr. Small block of down-faulted beds exposed near the mouth of Quebrada Tucillal just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Conus* sp. ind B**

HYPOTYPE YPM 519

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.194.

=*Conus cacuminatus* Spieker. SYNTYPE. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.40, pl.1, f.5.

HYPOTYPE YPM 31514–31519

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.194.

=*Conus cacuminatus* Spieker. SYNTYPE. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.40.

Tertiary, Miocene, Zorritos Fm, Upper Zorritos Mbr. Small block of down-faulted beds exposed near the mouth of Quebrada Tucillal just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Conus* sp. ind C**

HYPOTYPE YPM 520

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.194.

=*Conus molis* var. *bravoi* Spieker. SYNTYPE. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.41, pl.1, f.6.

HYPOTYPE YPM 31397–31399

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.194.

=*Conus molis* var. *bravoi* Spieker. SYNTYPE. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.41.

Tertiary, Miocene, Zorritos Fm, Upper Zorritos Mbr. Small block of down-faulted beds exposed near the mouth of Quebrada Tucillal just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Cyclobathmus haworthi* (Beede)**

HYPOTYPE YPM 15346

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.314, pl.9, f.3a.<sup>a</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 15347

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.314, pl.9, f.3f.<sup>b</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of Dozier, sec 43, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

<sup>a</sup>The wax cast figured on pl.9, f.3a is missing.

<sup>b</sup>The wax cast figured on pl.9, f.3f is missing.

***Cyclonema* (*Cyclonema*) *lydiamariarum* Peel**

HYPOTYPE YPM 28335

Peel, J.S. 1975. Can. J. Ea. Sci. v.12, n.9, p.1530, pl.1, f.9, 13, 21.

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.31.

Late Silurian, Pridoli, Stonehouse Fm, Stonehouse Upper Mbr. 2 in siltstone, in place, 3667 ft above base of Arisaig Grp section, exposed along Northumberland Strait shore, approx. 75 ft W of mouth of McEachern Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Cyclonema haliburtoni* McLearn**

HOLOTYPE YPM 266

McLearn, F.H. 1924. Geol. Surv. Can. Mem. 137, p.147, pl.21, f.3.<sup>a</sup>

=*Gyronema haliburtoni*. Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.29, pl.3, f.7.<sup>a</sup>

=*Gyronema haliburtoni*. Peel, J.S. 1984. Spec. Pap. Paleont. n.32, p.176, pl.1, f.8.<sup>a</sup>

Early Silurian, Ross Brook Fm. Zone d of McLearn, along shore, between Smith Brook and the new mouth of Arisaig Brook, SW of Arisaig Point, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Twenhofel, W.H., 1908.

<sup>a</sup>Incorrectly cited as YPM 462b.

***Cyclonema multivolve* Cooper**

SYNTYPE YPM 12924<sup>a</sup>

Cooper, G.A. 1930a. Am. J. Sci. v.220, p.284.

SYNTYPE YPM 31244

Cooper, G.A. 1930a. Am. J. Sci. v.220, p.284, pl.3, f.2.<sup>b</sup>

SYNTYPE YPM 31245

Cooper, G.A. 1930a. Am. J. Sci. v.220, p.284, pl.3, f.3.<sup>b</sup>

SYNTYPE YPM 31246

Cooper, G.A. 1930a. Am. J. Sci. v.220, p.284, pl.3, f.1.<sup>b</sup>

Late Ordovician, Richmonidian, Whitehead Fm. Loose blocks along Priest's road, 2.5 mi NW of Perce Village, Gaspe Peninsula, Quebec, Canada. Collector: Northrop, S.A. and Schuchert, C., 8/1927.

<sup>a</sup>This specimen lot is represented by six individuals.

<sup>b</sup>Cited as YPM 12924.

***Cyclonema? normaliana* Raymond**

HOLOTYPE YPM 26983

Raymond, P.E. 1905. Am. J. Sci. v.170, p.377.

= *Gyronema historicum* (Hudson). HYPOTYPE.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.208, pl.54, f.5.

Middle Ordovician, Chazy Grp. Near Normal School, Plattsburgh, Clinton Co., New York, USA.

***Cyclonema quadricarinata* Cooper**

HOLOTYPE YPM 12923

Cooper, G.A. 1930a. Am. J. Sci. v.220, p.283, pl.3, f.4-6.

Late Ordovician, Richmondian, Whitehead Fm. Grande Coupe, near the mouth of the small brook in a deep gash on the E side of Mount Ste. Anne about 1 mi N of Perce, Gaspe Peninsula, Quebec, Canada. Collector: Cooper, G.A., 8/1929.

***Cyclonema* sp.**

HYPOTYPE YPM 25925

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.106, pl.17, f.5.

Late Ordovician, Reedsville Fm. Muddy siltstone, railroad cut 1.0 mi SE of Tyrone, a few hundred yd S of PA Rt. 350, Blair Co., Pennsylvania, USA. Collector: Bretsky, P.W., 6/1966.

***Cyclonema? subangulatum* Hall**

HYPOTYPE YPM 27268

Bell, W.A. 1929. Mem. Canada Geol. Surv. n.155, p.176, pl.31, f.6.

HYPOTYPE YPM 27269

Bell, W.A. 1929. Mem. Canada Geol. Surv. n.155, p.176, pl.31, f.5.

Late Mississippian, Windsor Grp. Maxner Point, Windsor, Hants Co., Nova Scotia, Canada. Collector: Bell, W.A.

***Cyclonema varispirum* Twenhofel**

HOLOTYPE YPM 10385

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.250, pl.26, f.5.

Ordovician, Vaureal Fm, Vaureal zone 1. Indian Head, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Cyclozyga carinata* Knight**

HOLOTYPE YPM 13006

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.75, tbl.(p.75), pl.5, f.8.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Cyclozyga mirabilis* Knight**

HOLOTYPE YPM 13005

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.74, tbl.(p.74), pl.5, f.7,15.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.91, pl.49, f.1.

PARATYPE YPM 13103

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.74.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.91.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Cymbularia* sp.**

HYPOTYPE YPM 28329

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.19, pl.1, f.19.

HYPOTYPE YPM 31363, 31364

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.19.

Early Silurian, McAdam Brook Fm, McAdam Brook Lower Mbr. 6 in thick dark gray mudstone, in place 2071 ft above base of Arisaig Grp section, exposed along Northumberland Strait shore, approx. 275 ft E of mouth of French Brook, approx. 0.5 mi W of the mouth of Arisaig Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Cyrtolites clemvillensis* Northrop**

HOLOTYPE YPM 13322

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.206, pl.19, f.1,2.

Middle Silurian, Niagaran, Clemville Fm. First set of exposures between Clemville Bridge and dam, Little Port Daniel River, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Cyrtolites cf. clemvillensis* Northrop**

HYPOTYPE YPM 14872

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.206, pl.19, f.3,4.

Middle Silurian, Niagaran, Clemville Fm. First set of exposures between Clemville Bridge and dam, Little Port Daniel River, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Cyrtospira raymondi* Hudson**

See *Subulites raymondi* Hudson.

***Cyrtonella mitella* (Hall)**

HYPOTYPE YPM 16474<sup>a</sup>

Wenz, W. 1940. Archiv fur Molluskenkunde v.72, n.1, p.6, tf.2.<sup>b</sup>

Knight, J.B. 1947. J. Paleont. v.21, n.3, p.264, pl.42, f.1.<sup>c</sup>

Knight, J.B. 1952. Smith. Misc. Coll. v.117, n.13, p.50.

Middle Devonian, Traverse Grp, Bell Shale. Rockport Quarry of Kelly Island Lime and Transport Co., NW sec06T32NR09E, Alpena Co., Michigan, USA. Collector: Cloud, P.E. and Yang, Z., 1938.

<sup>a</sup>This is a pyritic specimen, stored in glycerine.

<sup>b</sup>The magnification of tf.2 is about  $\times 3$ , not  $\times 1$  as stated in the explanation.

<sup>c</sup>The magnification of pl.42, f.1 is about  $\times 3$ , not  $\times 4$  as stated in plate explanation.

***Cyrtospira notata* Billings**

HYPOTYPE YPM 10386

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.253, pl.50, f.9.

Ordovician, Ellis Bay Fm, Ellis Bay zone 4. 0.5 mi E of Junction Cliff, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Diaphorostoma quadrangulare* Dunbar**

HOLOTYPE YPM 9735

Dunbar, C.O. 1920. Trans. Conn. Acad. Arts Sci. v.23, pl.4, f.20,21.

Early Devonian, Linden Grp, Rockhouse Shale. Float 10-20 ft above base of Rockhouse, on Horse

Creek, about 5 mi W of Lowryville, bluff about 200 yd above clubhouse, Hardin Co., Tennessee, USA. Collector: Dunbar, C.O., 1916.

***Diodoceras avonensis* (Dawson)**

HYPOTYPE YPM 27278

Bell, W.A. 1929, Mem. Canada Geol. Surv. n.155, p.183, pl.33, f.7.

Late Mississippian, Windsor Grp. Maxner Point, Windsor, Hants Co., Nova Scotia, Canada. Collector: Schuchert, C., 1912.

***Diploconula biconvexa* Yochelson**

PARATYPE YPM 17115

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.248, tbl.25, pl.21, f.16.

Early Permian, Leonardian, Leonard Fm. 0.2 to 0.3 mi NE of Split Tank, 1.5 mi NE of Word Ranch house, also from the same horizon about 1 mi ENE of Split Tank; the Tank is on the line of Section 26, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

***Discotropis publicus* Yochelson**

HYPOTYPE YPM 26232

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.246.

Middle Permian, Word Fm. Second limestone, 0.5 mi N of hill 5611, Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

***Distemnóstoma curtum* Dunbar**

HOLOTYPE YPM 9752

Dunbar, C.O. 1920. Trans. Conn. Acad. Arts Sci. v.23, p.145, pl.4, f.10-12.

Early Devonian, Linden Grp, Rockhouse Shale. Float 10-20 ft above base of Rockhouse, on Horse Creek, about 5 mi W of Lowryville, bluff about 200 yd above clubhouse, Hardin Co., Tennessee, USA. Collector: Dunbar, C.O., 1916.

***Distemnóstoma princeps* Dunbar**

SYNTYPE YPM 9727

Dunbar, C.O. 1920. Trans. Conn. Acad. Arts Sci. v.23, p.143, pl.4, f.18.

PARALECTOTYPE. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.103, pl.86, f.3c,3d.

SYNTYPE YPM 30922

Dunbar, C.O. 1920. Trans. Conn. Acad. Arts Sci. v.23, p.143, pl.4, f.19.

**LECTOTYPE.** Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.103, pl.86, f.3a,3b.<sup>a</sup>

Early Devonian, Linden Grp, Rockhouse Shale. Float 10-20 ft above base of Rockhouse, on Horse Creek, about 5 mi W of Lowryville, bluff about 200 yd above clubhouse, Hardin Co., Tennessee, USA. Collector: Dunbar, C.O., 1916.

<sup>a</sup>Cited as YPM 9727.

***Donaldina robusta* (Stevens)**

See *Aclisina robusta* (Stevens).

***Donaldina stevensana* (Meek and Worthen)**

See *Aclisina stevensana* (Meek and Worthen).

***Eccyliomphalus kalmi* Raymond**

**HOLOTYPE** YPM 26981

Raymond, P.E. 1906b. Ann. Carnegie Mus. v.3, n.4, p.576.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.202, pl.53, f.4.

Middle Ordovician, Chazy Grp. Sloop Bay, Valcour Island, Clinton Co., New York, USA. Collector: Raymond, P.E.

***Eotomaria depressa* Cullison**

**HOLOTYPE** YPM 17146

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.58, pl.30, f.7-9.

Early Ordovician, Cotter Fm. Massive, gray granular dolomite, *Jeffersonia jennii* and *Campbelloceras simplex* zone of lower Cotter, road from MO Hwy 25 down to Crystal City Glass Workers Country Club, SW sec27T40NR06E, Jefferson Co., Missouri, USA. Collector: Cullison, J.S.

***Eotomaria* sp.**

**HYPOTYPE** YPM 76

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.24, pl.3, f.8.

Middle Silurian, Ross Brook Fm, Ross Brook Middle Mbr. 2 ft of beds, in place, 745 ft above base of Arisaig Grp section along Northumberland Strait shore, 700 ft E of Arisaig Brook mouth, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Eucochlis perminuta* Knight**

**HOLOTYPE** YPM 13861

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, pl.(p.53), pl.9, f.2f.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.116, pl.51, f.5.

**PARATYPE** YPM 13873

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, pl.(p.53), pl.9, f.2a.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.116.

**PARATYPE** YPM 13874<sup>a</sup>

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, pl.12, f.5.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.116.

**PARATYPE** YPM 32928

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, pl.(p.53), pl.9, f.2b.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.116.<sup>b</sup>

**PARATYPE** YPM 32929

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, pl.9, f.2c.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.116.<sup>b</sup>

**PARATYPE** YPM 32930

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, pl.9, f.2d.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.116.<sup>b</sup>

**PARATYPE** YPM 32931

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.53, pl.9, f.2e.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.116.<sup>b</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feejee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

<sup>b</sup>Cited as YPM 13873.

***Eunema altisulcatum* Hudson**

HOLOTYPE YPM 26187

Hudson, G.H. 1905. New York St. Mus. Bull. n.80, p.290, pl.5, f.3.

Middle Ordovician, Chazy Grp. Valcour Island, Lake Champlain, Clinton Co., New York, USA. Collector: Raymond, P.E.

***Eunema leptonotum* Raymond**

HOLOTYPE YPM 26984

Raymond, P.E. 1905. Am. J. Sci. v.170, p.378.

= *Gyronema leptonotum*. Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.209, pl.55, f.15.

Middle Ordovician, Chazy Grp. From ledge in field N of Duprey road to Tracy Brook (middle of section of Brainard and Seeley), near Chazy, Clinton Co., New York, USA. Collector: Raymond, P.E., 1903.

***Euomphalopterous gasconensis* Northrop**

HOLOTYPE YPM 13310

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.212, pl.22, f.3,4.

Boucot, A.J. and E.L. Yochelson. 1966. U.S. Geol. Surv. Prof. Pap. n.503-A, p.13.

Middle Silurian, Niagaran, Gascons Fm. Shore, center of Anse-aux-Gascons, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Euomphalopterous gasconensis* var.  
Northrop**

HYPOTYPE YPM 13309

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.212, pl.23, f.4.

Middle Silurian, Niagaran, Gascons Fm. Near center of Anse aux Gascons, Quebec, Canada. Collector: Schuchert, C., 8/1923.

***Euomphalopterous* sp.**

HYPOTYPE YPM 13317

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.212, pl.22, f.5.

Middle Silurian, Niagaran, Bouleaux Fm. Shore, E side of Reddish Point extending into Anse-aux-Gascons, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Euomphalus? anticostiensis* Twenhofel**

HOLOTYPE YPM 10368

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.249, pl.26, f.3,4.

Silurian, Gun River Fm, Gun River zone 4. Cape MacGilvray, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Galba galbana* (Say)**

HYPOTYPE YPM 12846

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.252.

HYPOTYPE YPM 12846A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.252, pl.4, f.1a.<sup>a</sup>

HYPOTYPE YPM 12846B

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.252, pl.4, f.1b.<sup>b</sup>

HYPOTYPE YPM 12846C

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.252, pl.4, f.1c.<sup>c</sup>

HYPOTYPE YPM 12846D

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.252, pl.4, f.1d.<sup>d</sup>

Quaternary, Recent. Wabash time, ditch in a swamp S of the Park Lane schoolhouse, 1.75 mi N of New Milford, Litchfield Co., Connecticut, USA. Collector: Hickock, H.W.

<sup>a</sup>Collection data indicate that 12846A is the specimen illustrated as pl.4, f.1a.<sup>b</sup>Collection data indicate that 12846B is the specimen illustrated as pl.4, f.1b.<sup>c</sup>Collection data indicate that 12846C is the specimen illustrated as pl.4, f.1c.<sup>d</sup>Collection data indicate that 12846D is the specimen illustrated as pl.4, f.1d.***Galba obrussa decampi* (Streng)**

HYPOTYPE YPM 12844

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.252.

HYPOTYPE YPM 12844A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.252, pl.4, f.5a.

HYPOTYPE YPM 12844B<sup>a</sup>

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.252, pl.4, f.5b.

HYPOTYPE YPM 12844C<sup>a</sup>

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.252, pl.4, f.5c.

## HYPOTYPE YPM 12844D

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.252, pl.4, f.5d.<sup>b</sup>

Quaternary, Recent. Wabash time, a pit excavated in a hollow, a short distance NE of the Park Lane schoolhouse, 1.75 mi N of New Milford, Litchfield Co., Connecticut, USA. Collector: Hunt, C.B.

<sup>a</sup>A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

<sup>b</sup>The magnification,  $\times 6.7$ , published in the explanation for pl.4, f.5d is incorrect.

## Genus B sp. B

## HYPOTYPE YPM 23684

Tyler, J.H. 1965. J. Paleont. v.39, n.3, p.348, pl.47, f.36.

Middle Devonian, Hamilton Grp, Ludlowville Fm, Centerfield Limestone Mbr. Bioherm facies, Four Mile Dam on Thunder Bay River, SW SE sec07T31NR08E, Alpena Co., Michigan, USA. Collector: Cloud, P.E. and Yang, Z., 1938.

*Glabrocingulum (Ananias) welleri*  
(Newell)

## HYPOTYPE YPM 14016

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.3-2a,6,7, tbl.1.

Late Pennsylvanian, Cisco Grp, Graham Fm, Wayland Shale. Section WK (Schindel 1979); S-facing slope at S end of Parks Mountain, 200 m E of Colorado River, 7.2 km SSE of Rockwood, 6.4 km SSW of Whon, Coleman Co., Texas, USA. Collector: Schindel, D.E., 7/1976.

## HYPOTYPE YPM 14017

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.3-2b,6,7, tbl.1.

Late Pennsylvanian, Cisco Grp, Graham Fm, Finis Shale Mbr. Section FC (Schindel 1979); upper part of section is exposed in E-facing slope of hill on which Mt. Zion cemetery is located; lower section is located 100 m to NE, being offset along the Gonzales Limestone Mbr to a S-facing bluff located 50 m W of large stock tank; cemetery is 1.7 km W and 0.9 km S of La Casa measured from junction of Rts. 207W and 717; top of section is exposed approx. 1 m below cemetery level, Stephens Co., Texas, USA. Collector: Schindel, D.E., 7/1977–7/1977.

approx. 1 m below cemetery level, Stephens Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

## HYPOTYPE YPM 14018

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.3-2c,6,7, tbl.1.

Late Pennsylvanian, Canyon Grp, Colony Creek Shale. Section CA (Schindel 1979); tall S-facing roadcut on N side of Rt. 180 2.75 km (1.7 mi) W of junction with Rt. 16 in Brad, Texas; lower part of section exposed in low roadcut on S side of Rt. 180, 2.3 km (1.45 mi) E of tall exposure, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

## HYPOTYPE YPM 14019

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.3-2d,6,7, tbl.1.

Late Pennsylvanian, Graford Fm, Wolf Mountain Shale Mbr. Shutin Mountain, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

## HYPOTYPE YPM 14020

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.2b,6,7, tbl.1.

Late Pennsylvanian, Cisco Grp, Graham Fm, Finis Shale Mbr. Section FC (Schindel 1979); upper part of section is exposed in E-facing slope of hill on which Mt. Zion cemetery is located; lower section is located 100 m to NE, being offset along the Gonzales Limestone Mbr to a S-facing bluff located 50 m W of large stock tank; cemetery is 1.7 km W and 0.9 km S of La Casa measured from junction of Rts. 207W and 717; top of section is exposed approx. 1 m below cemetery level, Stephens Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

## HYPOTYPE YPM 14021

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.2a,6,7, tbl.1.

Middle Pennsylvanian, Strawn Grp, Mineral Wells Fm, East Mountain Shale. Section EC (Schindel 1979); S-facing scar of abandoned clay pit N side of E Hubbard St. (Rt. 180) in Mineral Wells, 0.9 km E of junction with Rt. 281, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1976–7/1977.

## HYPOTYPE YPM 29051–29056

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.6,7, tbl.1.

Late Pennsylvanian, Cisco Grp, Graham Fm, Wayland Shale. Section WK (Schindel 1979); S-facing slope at S end of Parks Mountain, 200 m E of Colorado River, 7.2 km SSE of Rockwood, 6.4

km SSW of Whon, Coleman Co., Texas, USA.  
Collector: Schindel, D.E., 7/1976.

**HYPOTYPE** YPM 29057–29065

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.6,7, tbl.1.

Late Pennsylvanian, Cisco Grp, Graham Fm, Finis Shale Mbr. Section FC (Schindel 1979); upper part of section is exposed in E-facing slope of hill on which Mt. Zion cemetery is located; lower section is located 100 m to NE, being offset along the Gonzales Limestone Mbr to a S-facing bluff located 50 m W of large stock tank; cemetery is 1.7 km W and 0.9 km S of La Casa measured from junction of Rts. 207W and 717; top of section is exposed approx. 1 m below cemetery level, Stephens Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

**HYPOTYPE** YPM 29066–29074

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.6,7, tbl.1.

Late Pennsylvanian, Canyon Grp, Colony Creek Shale. Section CA (Schindel 1979); tall S-facing roadcut on N side of Rt. 180 2.75 km (1.7 mi) W of junction with Rt. 16 in Brad, Texas; lower part of section exposed in low roadcut on S side of Rt. 180, 2.3 km (1.45 mi) E of tall exposure, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

**HYPOTYPE** YPM 29075–29083, 35843–35845

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.6,7, tbl.1.

Late Pennsylvanian, Graford Fm, Wolf Mountain Shale Mbr. Shutin Mountain, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

***Glabrocingulum (Glabrocingulum)  
grayvillense* (Norwood and Pratten)**

**HYPOTYPE** YPM 14010

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.3-1a,6,7, tbl.1.

Late Pennsylvanian, Cisco Grp, Graham Fm, Wayland Shale. Section WK (Schindel 1979); S-facing slope at S end of Parks Mountain, 200 m E of Colorado River, 7.2 km SSE of Rockwood, 6.4 km SSW of Whon, Coleman Co., Texas, USA. Collector: Schindel, D.E., 7/1976.

**HYPOTYPE** YPM 14011

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.3-1b,6,7, tbl.1.

Late Pennsylvanian, Cisco Grp, Graham Fm, Finis Shale Mbr. Section FC (Schindel 1979); upper part

of section is exposed in E-facing slope of hill on which Mt. Zion cemetery is located; lower section is located 100 m to NE, being offset along the Gonzales Limestone Mbr to a S-facing bluff located 50 m W of large stock tank; cemetery is 1.7 km W and 0.9 km S of La Casa measured from junction of Rts. 207W and 717; top of section is exposed approx. 1 m below cemetery level, Stephens Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

**HYPOTYPE** YPM 14012

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.3-1c,6,7, tbl.1.

Late Pennsylvanian, Canyon Grp, Colony Creek Shale. Section CA (Schindel 1979); tall S-facing roadcut on N side of Rt. 180 2.75 km (1.7 mi) W of junction with Rt. 16 in Brad, Texas; lower part of section exposed in low roadcut on S side of Rt. 180, 2.3 km (1.45 mi) E of tall exposure, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

**HYPOTYPE** YPM 14013

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.3-1d,6,7, tbl.1.

Late Pennsylvanian, Graford Fm, Wolf Mountain Shale Mbr. Shutin Mountain, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

**HYPOTYPE** YPM 14014

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.3-1e,6,7, tbl.1.

Middle Pennsylvanian, Strawn Grp, Mineral Wells Fm, East Mountain Shale. Section EB (Schindel 1979); S-facing wall of abandoned clay pit, 1.8 km NE of junction of Rts. 281 and 180 in Mineral Wells, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

**HYPOTYPE** YPM 14015

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.3-1,6,7, tbl.1.

Middle Pennsylvanian, Grindstone Creek Fm. Near Patillo, Erath Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

**HYPOTYPE** YPM 28996–29004

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.6,7, tbl.1.

Late Pennsylvanian, Cisco Grp, Graham Fm, Wayland Shale. Section WK (Schindel 1979); S-facing slope at S end of Parks Mountain, 200 m E of Colorado River, 7.2 km SSE of Rockwood, 6.4 km SSW of Whon, Coleman Co., Texas, USA. Collector: Schindel, D.E., 7/1976.

## HYPOTYPE YPM 29005–29013

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.6,7, tbl.1.

Late Pennsylvanian, Cisco Grp, Graham Fm, Finis Shale Mbr. Section FC (Schindel 1979); upper part of section is exposed in E-facing slope of hill on which Mt. Zion cemetery is located; lower section is located 100 m to NE, being offset along the Gonzales Limestone Mbr to a S-facing bluff located 50 m W of large stock tank; cemetery is 1.7 km W and 0.9 km S of La Casa measured from junction of Rts. 207W and 717; top of section is exposed approx. 1 m below cemetery level, Stephens Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

## HYPOTYPE YPM 29014–29022

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.6,7, tbl.1.

Late Pennsylvanian, Canyon Grp, Colony Creek Shale. Section CA (Schindel 1979); tall S-facing roadcut on N side of Rt. 180 2.75 km (1.7 mi) W of junction with Rt. 16 in Brad, Texas; lower part of section exposed in low roadcut on S side of Rt. 180, 2.3 km (1.45 mi) E of tall exposure, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

## HYPOTYPE YPM 29023–29031

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.6,7, tbl.1.

Late Pennsylvanian, Graford Fm, Wolf Mountain Shale Mbr. Shutin Mountain, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

## HYPOTYPE YPM 29032–29041

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.6,7, tbl.1.

Middle Pennsylvanian, Strawn Grp, Mineral Wells Fm, East Mountain Shale. Section EB (Schindel 1979); S-facing wall of abandoned clay pit, 1.8 km NE of junction of Rts. 281 and 180 in Mineral Wells, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

## HYPOTYPE YPM 29042–29050

Schindel, D.E. 1982. Bull. Geol. Soc. Am. v.93, p.402, tf.6,7, tbl.1.

Middle Pennsylvanian, Grindstone Creek Fm. Near Patillo, Erath Co., Texas, USA. Collector: Schindel, D.E., 7/1977.

*Goniostropha* ? sp.

## HYPOTYPE YPM 275

McLearn, F.H. 1924. Geol. Surv. Can. Mem. 137, p.143, pl.21, f.21.<sup>a</sup>

=undet. Gastropoda. Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.39, pl.1, f.25.<sup>a</sup>

Late Silurian, Pridoli, Stonehouse Fm. Zone c of McLearn, along shore, SW of Stonehouse Brook, 2.4–2.6 mi SW of Arisaig Point, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Twenhofel, W.H., 1908.

<sup>a</sup>Incorrectly cited as YPM 466.

*Gyraulus altissimus* (Baker)

## HYPOTYPE YPM 12823

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249.

## HYPOTYPE YPM 12823A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249, pl.2, f.5a.

## HYPOTYPE YPM 12823B

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249, pl.2, f.5b.

## HYPOTYPE YPM 12849A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249, pl.4, f.10a.

## HYPOTYPE YPM 12849B

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249, pl.4, f.10b.<sup>a</sup>

## HYPOTYPE YPM 12849C

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249, pl.4, f.10c.<sup>b</sup>

Quaternary, Recent. Wabash time, a pit excavated in a hollow, a short distance NE of the Park Lane schoolhouse, 1.75 mi N of New Milford, Litchfield Co., Connecticut, USA. Collector: Hunt, C.B.

<sup>a</sup>Collection data indicate that 12849B is the specimen illustrated as pl.4, f.10b.

<sup>b</sup>Collection data indicate that 12849C is the specimen illustrated as pl.4, f.10c.

*Gyraulus deflectus* (Say)

## HYPOTYPE YPM 12817

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249.

HYPOTYPE YPM 12817A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249, pl.4, f.12a.

HYPOTYPE YPM 12817B

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249, pl.4, f.12b.<sup>a</sup>

HYPOTYPE YPM 12817C

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249, pl.4, f.12c.<sup>b</sup>

HYPOTYPE YPM 12824

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249.

HYPOTYPE YPM 12824A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249, pl.2, f.3a.

HYPOTYPE YPM 12824B

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.249, pl.2, f.3b.

Quaternary, Recent. Wabash time, a pit excavated in a hollow, a short distance NE of the Park Lane schoolhouse, 1.75 mi N of New Milford, Litchfield Co., Connecticut, USA. Collector: Cooper, G.A.

<sup>a</sup>Collection data indicate that 12817B is the specimen illustrated as pl.4, f.12b.

<sup>b</sup>Collection data indicate that 12817C is the specimen illustrated as pl.4, f.12c.

***Gyronema haliburtoni* (McLearn)**

See *Cyclonema haliburtoni* McLearn.

***Gyronema historicum* (Hudson)**

See *Cyclonema? normaliana* Raymond.

***Gyronema leptonotum* (Raymond)**

See *Eunema leptonotum* Raymond.

***Gyronema ? rotalinea* Raymond**

HOLOTYPE YPM 26985

Raymond, P.E. 1906b. Ann. Carnegie Mus. v.3, n.4, p.577.

=*Gyronema ? rotalineum*. Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.210, pl.54, f.4.

Middle Ordovician, Chazy Grp. Sloop Bay, Valcour Island, Clinton Co., New York, USA. Collector: Raymond, P.E.

***Gyronema ? rotalineum* Raymond**

See *Gyronema ? rotalinea* Raymond.

***Helcionella gaspensis* Kindle**

HOLOTYPE YPM 17091

Kindle, C.H. 1942. Am. J. Sci. v.240, p.637, pl.1, f.15.

Cambrian, Corner-of-the-Beach Fm. W of Corner-of-the-Beach, Gaspe, Quebec, Canada. Collector: Schuchert, C. and Cloud, P.E.

***Helcionella pricei* Resser and Howell**

HYPOTYPE YPM 14387

Resser, C.E. and B.F. Howell. 1938. Bull. Geol. Soc. Am. v.49, p.214.

Early Cambrian, Kinzers Fm. Road metal quarry and walls of demolished tenement house on Noah L. Getz Farm, on Harrisburg Pike, 1 mi N of Rohrerstown, and about 2.5 mi W of Lancaster, Lancaster Co., Pennsylvania, USA. Collector: Getz, N.L.

***Helicotoma whiteavesiana* Raymond**

HOLOTYPE YPM 7984

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.204, pl.48, f.11,12.

Middle Ordovician, Aylmer Limestone. Aylmer, Quebec, Canada. Collector: Raymond, P.E.

***Helisoma antrosa striata* (Baker)**

HYPOTYPE YPM 12866

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.247.

HYPOTYPE YPM 12866A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.247, pl.3, f.2a.

HYPOTYPE YPM 12866B

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.247, pl.3, f.2b.

HYPOTYPE YPM 12866C

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.247, pl.3, f.2c.

HYPOTYPE YPM 12866D

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.247, pl.3, f.2d,2e.

Quaternary, Recent. Wabash time, a pit excavated in a hollow, a short distance NE of the Park Lane

schoolhouse, 1.75 mi N of New Milford, Litchfield Co., Connecticut, USA. Collector: Hunt, C.B.

***Helminthozyga vermiculus* Knight**

HOLOTYPE YPM 12992

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.63, tbl.(p.63), pl.4, f.3b

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.145, pl.49, f.12a,12b.

PARATYPE YPM 13106

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.63, pl.4, f.3a.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.145.

PARATYPE YPM 25810

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.63, pl.4, f.3c.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.145.

PARATYPE YPM 25811

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.63, pl.4, f.3d.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.145.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Hemizyga) corbis* Knight**

HOLOTYPE YPM 13000

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.70, tbl.(p.70), pl.5, f.3.<sup>a</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>Incorrectly cited as YPM 12000.

***Hemizyga (Hemizyga) corpulentissima* Knight**

HOLOTYPE YPM 13002

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.72, tbl.(p.72), pl.5, f.4.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Hemizyga) illineata* Knight**

HOLOTYPE YPM 13001

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.71, tbl.(p.71), pl.5, f.2a,2b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Hemizyga) inflata* Knight**

HOLOTYPE YPM 12999

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.69, tbl.(p.69), pl.5, f.1.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Hyphantozyga) gracilis* Knight**

HOLOTYPE YPM 13003

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.73, tbl.(p.73), pl.5, f.5.

=*Hyphantozyga gracilis*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.155, pl.49, f.2.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Hyphantozyga) sp.***

HYPOTYPE YPM 13004

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.74, pl.5, f.6.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale

exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Plocezyga) abolescens* Knight**

HOLOTYPE YPM 12996

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.66, tbl.(p.66), pl.4, f.7.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Plocezyga) angularis* Knight**

HOLOTYPE YPM 12994

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.65, tbl.(p.65), pl.4, f.8a.

PARATYPE YPM 13104

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.65, pl.4, f.8b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Plocezyga) corona* Knight**

HOLOTYPE YPM 12993

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.64, tbl.(p.64), pl.4, f.4.

=*Plocezyga corona*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.261, pl.49, f.4.

PARATYPE YPM 13022

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.64.

=*Plocezyga corona*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.261.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Plocezyga) percostata* Knight**

HOLOTYPE YPM 12998

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.68, tbl.(p.68), pl.4, f.6.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Plocezyga) tenuilirata* Knight**

HOLOTYPE YPM 12997

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.67, tbl.(p.67), pl.4, f.5a.

PARATYPE YPM 13102

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.67, pl.4, f.5b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Hemizyga (Plocezyga) tenuis* Knight**

HOLOTYPE YPM 12995

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.65, tbl.(p.65), pl.4, f.9.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Holopea harpa* (Hudson)**

See *Straparollina harpa* Hudson.

***Holopea hudsoni* Raymond**

SYNTYPE YPM 26965<sup>a</sup>

Raymond, P.E. 1905. Am. J. Sci. v.170, p.378.

=*Trochonema hudsoni*. Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.207, pl.54, f.1.

SYNTYPE YPM 26966<sup>a</sup>

Raymond, P.E. 1905. Am. J. Sci. v.170, p.378.

=*Trochonema hudsoni*. Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.207, pl.54, f.2.

Middle Ordovician, Chazy Grp. From ledge in field N of Duprey road to Tracy Brook (middle of section

of Brainard and Seeley), near Chazy, Clinton Co., New York, USA. Collector: Raymond, P.E., 1903.

<sup>a</sup>Labeled as a "paratype" of *Holopea hudsoni* Raymond, although it was neither figured nor mentioned in the original description.

***Holopea planidorsata* Dunbar**

HOLOTYPE YPM 9726

Dunbar, C.O. 1920. Trans. Conn. Acad. Arts Sci. v.23, p.147, pl.4, f.13.

Early Devonian, Linden Grp, Rockhouse Shale. Float 10-20 ft above base of Rockhouse, on Horse Creek, about 5 mi W of Lowryville, bluff about 200 yd above clubhouse, Hardin Co., Tennessee, USA. Collector: Dunbar, C.O., 1916.

***Holopea rossbrookiensis* Peel**

HOLOTYPE YPM 28333

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.28, pl.3, f.11.

Early Silurian, Llandoverian, Ross Brook Fm, Ross Brook Upper Mbr. 6 in silty shale, in place 1289 ft above base of Arisaig Grp section, exposed along shore approx. 275 ft E of mouth of French Brook, approx. 0.5 mi W of the mouth of Arisaig Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

PARATYPE YPM 28334

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.28, pl.3, f.6.

Middle Silurian, Ross Brook Fm, Ross Brook Upper Mbr. Slump blocks, 1253-1260 ft above base of Arisaig Grp section along Northumberland Strait shore, 500 ft E of mouth of Ross Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Holopea scrutator* Raymond**

SYNTYPE YPM 8011

Raymond, P.E. 1905. Am. J. Sci. v.170, p.379.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.212, pl.54, f.7.<sup>a</sup>

Middle Ordovician, Chazy Grp. Sloop Bay, Valcour Island, Clinton Co., New York, USA. Collector: Raymond, P.E.

SYNTYPE YPM 26987

Raymond, P.E. 1905. Am. J. Sci. v.170, p.379.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.212, pl.54, f.8.<sup>a</sup>

Middle Ordovician, Chazy Grp. Valcour Island, Clinton Co., New York, USA.

<sup>a</sup>Described as "one of the types" of *Holopea scrutator* Raymond, although it was neither figured nor mentioned in the original description.

***Holopea* sp.**

HYPOTYPE YPM 17267

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.10.

Late Ordovician. Bed J, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/3/1939.

HYPOTYPE YPM 17268

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.10.

Late Ordovician. 45 ft above tide, Cloud's locality 7, NW end of Sutton Island, Canada. Collector: Cloud, P.E., 8/9/1939.

HYPOTYPE YPM 17272

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.10.

Late Ordovician. Bed H, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

HYPOTYPE YPM 17273A

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.10, pl.3, f.11,12.

Late Ordovician. Bed O, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

HYPOTYPE YPM 17274, 17275

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.10.

Late Ordovician. Bed N, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

HYPOTYPE YPM 17286

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.10.

Late Ordovician. Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 1938.

***Holopea?* sp.**

HYPOTYPE YPM 31345<sup>a</sup>

McLearn, F.H. 1924. Geol. Surv. Can. Mem. 137, p.148, pl.21, f.2.<sup>b</sup>

=*Naticonema kauffmani* Peel. HOLOTYPE. Peel, J.S. 1975. Can. J. Ea. Sci. v.12, n.9, p.1530, pl.1, f.12,15.<sup>b</sup>

=*Naticonema kauffmani* Peel. HOLOTYPE. Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.30, pl.4, f.27.<sup>b</sup>

Early Silurian, Beechhill Fm. Upper 75 ft of section, along shore, on W and E sides of Beechill Cove, 2 mi NE of Arisaig Point, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Twenhofel, W.H., 1908.

<sup>a</sup>This includes one specimen (a natural mold), a wax cast, and a latex cast.

<sup>b</sup>Incorrectly cited as YPM 462A.

#### *Holopea symmetrica* Hall

HYPOTYPE YPM 13833<sup>a</sup>

White, T.G. 1895. Trans. New York Acad. Sci. n.15, p.85.

Knight, J.B. 1932b. J. Washington Acad. Sci. v.22, n.16, p.475, tf.1a-f.

Middle Ordovician, Trenton Limestone. Near Trenton Falls, Oneida Co., New York, USA. Collector: White, T.G.

<sup>a</sup>This includes a thin section with remnants and four plaster casts.

#### *Holopea vaurealensis* Twenhofel

PARATYPE YPM 20503

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.251, pl.26, f.6.

Ordovician, Vaureal Fm, Vaureal zone 5. Zone 23 of Vaureal River section, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 8/4/1919.

#### *Holopea vignneauensis* Twenhofel

HOLOTYPE YPM 26206

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.62, pl.8, f. 18,19.

PARATYPE YPM 26207, 26208

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.62.

Middle Ordovician, Mingan Fm. Near base of formation, Parroquet Island, Mingan Islands, Gulf of St. Lawrence, Quebec, Canada. Collector: Twenhofel, W.H.

#### *Hormotoma cötterensis* Cullison

PARATYPE YPM 17150

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.59, pl.30, f.6.

Early Ordovician, Cotter Fm. Massive, gray granular dolomite, *Jeffersonia jennii* and *Campbellloceras simplex* zone of lower Cotter, road from MO Hwy 25 down to Crystal City Glass Workers Country Club, SW sec27T40NR06E, Jefferson Co., Missouri, USA. Collector: Cullison, J.S.

#### *Hormotoma dubia* Cullison

PARATYPE YPM 17147

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.58, pl.30, f.15.

Early Ordovician, Jefferson City Grp, Rich Fountain Fm. Residual chert, *Jeffersonia* trilobite zone, base of hill on N side of Moreau River and on E side of US Hwy 63, SW SW sec27T44NR11W, Cole Co., Missouri, USA. Collector: Cullison, J.S.

#### *Hormotoma lutiensis* Cullison

PARATYPE YPM 17148

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.59, pl.30, f.13.

PARATYPE YPM 17149

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.59.

Early Ordovician, Theodosia Fm. Hill slope just W of Theodosia school, NE corner NW SE sec29T22NR15W, Ozark Co., Missouri, USA. Collector: Cullison, J.S.

#### *Hormotoma powellensis* Cullison

PARATYPE YPM 17151

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.60, pl.30, f.3.

Early Ordovician, Powell Fm. Large porous, drusy, red residual chert boulders, "black ledge" of Powell, NW corner of central rectangle at top of first high hill on W.P.A. road W of Tracey's ferry over North Fork of White River, Baxter Co., Arkansas, USA. Collector: Cullison, J.S.

#### *Hormotoma?* sp. A

HYPOTYPE YPM 13327

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.210, pl.20, f.2.

Middle Silurian, Niagaran, Bouleaux Fm. Near top of formation, just W of tunnel dump, Anse McGinnis, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Hormotoma?* sp. B**

HYPOTYPE YPM 13323

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.210, pl.20, f.1.

Middle Silurian, Niagaran, West Point Fm, West Point Member IV. Shore, W of lighthouse [W of Peabody locality B0949] between West Point and Indian Point, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Hyphantozyga gracilis* (Knight)**

See *Hemizygia* (*Hyphantozyga*) *gracilis* Knight.

**(?)*Knightites* (*Retospira*) sp. indet.**

HYPOTYPE YPM 20101

Gordon, M., Jr. 1975. U.S. Geol. Surv. Prof. Pap. n.848-D, tbl.3.

Mississippian, Amsden Fm. 66-70 ft above Amsden base, W side Wiggins Fork, Washakie Range, sec18T42NR105W, Fremont Co., Wyoming, USA. Collector: Love, J.D., 1937.

***Lepetopsis?* *haworthi* (Beede)**

HYPOTYPE YPM 15326

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.302, pl.4, f.1b.<sup>a</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Base of Dozier on summit of Naco Butte (Mt. Nebo) on N side of highway, 3 mi W of Estelline (Hall Co.), Collingsworth Co., Texas, USA. Collector: Roth, R.I.

<sup>a</sup>The specimen figured on pl.4, f.1b is a wax cast of a natural mold.

***Leptptygma virgatum* (Knight)**

See *Auriptygma virgatum* Knight.

***Leptozyga minuta* Knight**

See *Pseudozygopleura* (*Leptozyga*) *minuta* Knight.

***Lesueurilla isabellaensis* Cullison**

PARATYPE YPM 17126

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.56, pl.28, f.3.<sup>a</sup>

Early Ordovician, Theodosia Fm, Blackjack Knob Mbr. Residual chert blocks, *Lesueurilla*

*isabellaensis* and *Orospira elegantula* zone of Blackjack Knob, along Isabella-Hammond Road about 1 mi N of Isabella, just N of benchmark in SE corner NE NE sec16T22NR15W, Ozark Co., Missouri, USA. Collector: Cullison, J.S.

<sup>a</sup>Published as *Lesueurilla isabellaensis* on p.56.

***Lesueurilla magna* Cullison**

PARATYPE YPM 17412

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.57.<sup>a</sup>

Early Ordovician, Powell Fm. Large porous, drusy, red residual chert boulders, "black ledge" of Powell, NW corner of central rectangle at top of first high hill on W.P.A. road W of Tracey's ferry over North Fork of White River, Baxter Co., Arkansas, USA. Collector: Cullison, J.S.

<sup>a</sup>Incorrectly cited as YPM 17187; published as *Lesueurilla magna* on p. 57.

***Lesueurilla planidorsalis* Cullison**

PARATYPE YPM 17410

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.55.<sup>a</sup>

Early Ordovician, Jefferson City Grp, Theodosia Fm. Lower and middle Theodosia, Swan Creek, 0.25 mi above mouth of Elkhorn Creek, Christian Co., Missouri, USA. Collector: Cullison, J.S.

<sup>a</sup>Incorrectly cited as YPM 17185; published as *Lesueurilla planidorsalis* on p.55.

***Lesueurilla supraconvexa* Cullison**

PARATYPE YPM 17411A

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.57.<sup>a</sup>

PARATYPE YPM 17411B

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.57.<sup>a</sup>

Early Ordovician, Jefferson City Grp, Theodosia Fm. Middle and upper Theodosia, 4 mi S of Chadwick, Missouri, USA. Collector: Cullison, J.S.

<sup>a</sup>Incorrectly cited as YPM 17186; published as *Lesueurilla supraconvexa* on p.57.

***Limnea hoppii* Robinson**

HOLOTYPE YPM 17850C

Robinson, W.I. 1915. Am. J. Sci. v.190, p.650, tf.1c.

HYPOTYPE YPM 17850A

Robinson, W.I. 1915. Am. J. Sci. v.190, p.650, tf.1a.

HYPOTYPE YPM 17850B

Robinson, W.I. 1915. Am. J. Sci. v.190, p.650, tf.1b.

Late Triassic, Chinle Fm. Limestone lens, 12 mi SE of Tuba, Coconino Co., Arizona, USA. Collector: Gregory, H.E., 1914.

***Liospira cf. affinis* (Foerste)**

HYPOTYPE YPM 306

McLearn, F.H. 1924. Geol. Surv. Can. Mem. 137, p.144, pl.20, f.26,27.<sup>a</sup>

=*Liospira cf. L. affinis*. Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.24, pl.2, f.4.<sup>a</sup>

Early Silurian, Beechhill Fm. Rory McDonald Brook, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Twenhofel, W.H., 1908.

<sup>a</sup>Incorrectly cited as YPM 480.

***Liospira cf. L. affinis* (Foerste)**

HYPOTYPE YPM 83

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.24, pl.2, f.7,10.<sup>a</sup>

Early Silurian, Beechhill Fm. Rory McDonald Brook, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Twenhofel, W.H., 1908.

See also *Liospira cf. affinis* (Foerste).

<sup>a</sup>The specimen figured on pl.10, f.7,10 is a silicon rubber impression of a natural mold.

***Liospira progne* (Billings)**

HYPOTYPE YPM 17251, 17264, 17291

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Layer 55 ft above sea level, SW side of Sutton Island, Canada. Collector: Cloud, P.E., 8/8/1939.

HYPOTYPE YPM 17252

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. 55 ft above sea level, Cloud's locality 5, SW side of Sutton Island, Canada. Collector: Cloud, P.E., 8/3/1939.

HYPOTYPE YPM 17253

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 1938.

HYPOTYPE YPM 17254

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

HYPOTYPE YPM 17254A

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8, pl.3, f.1,2.

Late Ordovician. Loose blocks, seemingly from beds N and O, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 07/4/1939.

HYPOTYPE YPM 17255, 17259

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Cloud's locality 16, about 0.5 mi inland and 30-35 ft above tide, Victoria Island, N of Read Island, Canada. Collector: Cloud, P.E., 9/10/1939.

HYPOTYPE YPM 17256, 17288

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. 45 ft above tide, Cloud's locality 7, NW end of Sutton Island, Canada. Collector: Cloud, P.E., 8/9/1939.

HYPOTYPE YPM 17257

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Bed O, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

HYPOTYPE YPM 17258, 17260

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Loose blocks, seemingly from Cloud's bed H, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/4/1939.

HYPOTYPE YPM 17261

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Bed H, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

HYPOTYPE YPM 17262, 17263

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. 30 ft above tide, E end of SE promontory of Sutton Island, Canada. Collector: Cloud, P.E., 8/8/1939.

HYPOTYPE YPM 17265

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Cloud's locality 7, NW end of Sutton Island, Canada. Collector: Cloud, P.E., 8/9/1939.

HYPOTYPE YPM 17266

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Bed J, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/3/1939.

HYPOTYPE YPM 17269, 17270

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., Ross, R., Ross, L., Washburn, A.L., Washburn, T.T., 1938.

HYPOTYPE YPM 17271

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8, pl.3, f.8,9.

HYPOTYPE YPM 17274A, 17325

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Bed N, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

### *Liospira strigata* Collie

HOLOTYPE YPM 7403

Collie, G.L. 1903. Bull. Geol. Soc. Am. v.14, p.419, pl.59, f.8,9.

Middle Ordovician, Beekmantown Fm. Horizon A-3 of Collie, upper part of formation, thick-bedded dark crystalline limestone, stained with iron oxide, Bellefonte, Centre Co., Pennsylvania, USA. Collector: Collie, G.L., 1902.

### *Longstaffia centervillensis* (Foerste)

HYPOTYPE YPM 28349

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.25, pl.3, f.4.

HYPOTYPE YPM 31368

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.25.

Middle Silurian, Ross Brook Fm, Ross Brook Middle Mbr. 2 ft of beds, in place, 745 ft above base of Arisaig Grp section along Northumberland Strait shore, 700 ft E of Arisaig Brook mouth, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

### *Lophospira acutocarinata* Twenhofel

HOLOTYPE YPM 10403

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.237, pl.25, f.3.

Ordovician, Vaureal Fm, Vaureal zone 2. West Cliff, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

### *Lophospira billingsi* Raymond

SYNTYPE YPM 7983A

Raymond, P.E. 1905. Am. J. Sci. v.170, p.377.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.186, pl.49, f.1.<sup>a</sup>

SYNTYPE YPM 7983B

Raymond, P.E. 1905. Am. J. Sci. v.170, p.377.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.186, pl.49, f.2.<sup>a</sup>

Middle Ordovician, Aylmer Sandstone. Aylmer, Quebec, Canada. Collector: Raymond, P.E.

<sup>a</sup>Described as "one of the types" of *Lophospira billingsi* Raymond, although it was neither figured or mentioned in the original description.

### *Lophospira* n. sp.

HYPOTYPE YPM 17285

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Bed N, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

HYPOTYPE YPM 17289

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

**HYPOTYPE YPM 17289A**

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8, pl.3, f.4.

Late Ordovician. Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., Ross, R., Ross, L., Washburn, A.L., Washburn, T.T., 1938.

**HYPOTYPE YPM 17290**

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

**HYPOTYPE YPM 17290A**

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8, pl.3, f.3.

Late Ordovician. Cloud's locality 5, layer 55 ft above sea level, SW side of Sutton Island, Canada. Collector: Cloud, P.E., 8/8/1939.

**HYPOTYPE YPM 17292**

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Layer 55 ft above sea level, SW side of Sutton Island, Canada. Collector: Cloud, P.E., 8/8/1939.

**HYPOTYPE YPM 17293, 17294**

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Bed O, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

**HYPOTYPE YPM 17295**

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8.

Late Ordovician. Loose blocks, seemingly from Cloud's beds N and O, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 07/4/1939.

**HYPOTYPE YPM 17296**

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.8, pl.3, f.5.

Late Ordovician. Cloud's locality 16, about 0.5 mi inland and 30-35 ft above tide, Victoria Island, N of Read Island, Canada. Collector: Cloud, P.E., 9/10/1939.

***Lophospira? papillosa* (Billings)**

**HYPOTYPE YPM 10376**

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.238, pl.45, f.5-7.

Ordovician, Ellis Bay Fm, Ellis Bay zone 4. Near Junction Cliff, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Lophospira perangulata* (Hall)**

**HYPOTYPE YPM 7985A**

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.188, pl.49, f.7.

**HYPOTYPE YPM 7985B**

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.188, pl.49, f.8.

Middle Ordovician, Chazy Grp. Sloop Bay, Valcour Island, Clinton Co., New York, USA. Collector: Raymond, P.E.

**HYPOTYPE YPM 26203**

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.61, pl.8, f.20.

**HYPOTYPE YPM 26204, 26205**

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.61.

Ordovician, Mingan Fm. Lower 50 or 60 ft of the Mingan on Quarry or Sea Cow Island or Clearwater Point, Gaspe Peninsula, Quebec, Canada. Collector: Twenhofel, W.H.

***Lophospira rectistriata* Raymond**

**HYPOTYPE YPM 26979**

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.187, pl.49, f.5.

Middle Ordovician, Chazy Grp. From ledge in field N of Duprey road to Tracy Brook (middle of section of Brainard and Seeley), near Chazy, Clinton Co., New York, USA. Collector: Raymond, P.E., 1903.

**HYPOTYPE YPM 26980**

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.187, pl.49, f.6.

Middle Ordovician, Chazy Grp. From Sugar Bush on road to Chazy Landing, 2 mi S of Chazy, Clinton Co., New York, USA. Collector: Raymond, P.E., 1903.

***Lophospira? varians* Billings**

**HYPOTYPE YPM 10391**

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.238, pl.46, f.6.

Ordovician, English Head Fm, English Head zone 2. English Head, Anticosti Island, Quebec, Canada. Collector: Schuchert, C. and Twenhofel, W.H., 6/1908.

***Loxonema sinuosum* (Sowerby)**

HYPOTYPE YPM 28337<sup>a</sup>

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.37, pl.4, f.10.<sup>b</sup>

Late Silurian, Pridoli, Stonehouse Fm. In place, 3805-3850 ft elevation, McAdam Brook, Coast Section, Arisaig Point, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Naylor and Field, 1959.

<sup>a</sup>This includes one specimen and a silicon rubber impression.

<sup>b</sup>Cited as YPM 28337A.

***Loxonema* sp. B**

HYPOTYPE YPM 28341

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.38, pl.4, f.14.

Middle Silurian, Ross Brook Fm, Ross Brook Upper Mbr. 12 in mudstone, in place, 1252-1253 ft above base of Arisaig Grp section along Northumberland Strait shore, approx. 425 ft E of mouth of Ross Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Loxoplocus (Lophospira) abbreviata* (Hall)**

HYPOTYPE YPM 25931

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.106, pl.18, f.4.

Late Ordovician, Reedsville Fm. Sandstone and shale pebble conglomerate, roadcut 3.0 mi S of Radford, along VA Secondary Rt. 787, Ingle Mountain, Pulaski Co., Virginia, USA. Collector: Bretsky, P.W., 7/1966.

HYPOTYPE YPM 25932<sup>a</sup>

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.106, pl.18, f.5.

Late Ordovician, Reedsville Fm. Ferruginous stained sandstone and shale pebble conglomerate, roadcut 3.0 mi S of Water Lick, along VA Secondary Rt. 678, Massanutton Mountain, Virginia, USA. Collector: Bretsky, P.W., 7/1966.

HYPOTYPE YPM 25933

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.106, pl.18, f.6.

Late Ordovician, Martinsburg Fm. Muddy siltstone, friable, patches of lingulid fragments and phosphate

nodules, roadcut about 12 mi W of Franklin, along US Rt. 33, Pendleton Co., Virginia, USA. Collector: Bretsky, P.W., 8/1965.

<sup>a</sup>This includes one specimen and two latex impressions.

***Loxoplocus (Lophospira) perangulata* (Hall)**

HYPOTYPE YPM 25930

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.109, pl.18, f.4.

HYPOTYPE YPM 25934

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.109, pl.18, f.7.

Late Ordovician, Reedsville Fm. Sandstone and shale pebble conglomerate, roadcut 3.0 mi S of Radford, along VA Secondary Rt. 787, Ingle Mountain, Pulaski Co., Virginia, USA. Collector: Bretsky, P.W., 7/1966.

***Loxoplocus (Lophospira) ventricosta* (Hall)**

HYPOTYPE YPM 25929

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.108, pl.18, f.3.<sup>a</sup>

Late Ordovician, Reedsville Fm. Ferruginous stained sandstone and shale pebble conglomerate, roadcut 3.0 mi S of Water Lick, along VA Secondary Rt. 678, Massanutton Mountain, Virginia, USA. Collector: Bretsky, P.W., 7/1966.

<sup>a</sup>The specimen figured on pl.18, f.3 is a latex impression of a natural mold.

***Lunatia concinna* Hall and Meek**

HYPOTYPE YPM 35092

Waage, K.M. 1968. Bull. Peabody Mus. Nat. Hist. n.27, pl.12, f.a.

Late Cretaceous, Maastrichtian, Fox Hills Fm, Iron Lightning Mbr, Bullhead Lithofacies. Unit 5, top of section 2 of 1961, the blob bed, probably above first (lower) Colgate sand, badland exposures along but principally W of head of small drainage system running N to Moreau River, and 4 mi SE of Iron Lightning, Redelm NE Quad., W edge Sec32T14NR19E, W Sec33T14NR19E, Ziebach Co., South Dakota, USA. Collector: Waage, K.M. and others, 1962.

***Lymnaea stagnalis appressa* (Say)**

HYPOTYPE YPM 12878

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.250.

HYPOTYPE YPM 12878A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.250, pl.3, f.3a,3b.

HYPOTYPE YPM 12878B

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.250, pl.3, f.3c.

HYPOTYPE YPM 12878C

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.250, pl.3, f.11(left).

HYPOTYPE YPM 12878D

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.250, pl.4, f.11(upper right).

HYPOTYPE YPM 12878E

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.250, pl.4, f.11(lower right).

Quaternary, Recent. Wabash time, a pit excavated in a hollow, a short distance NE of the Park Lane schoolhouse, 1.75 mi N of New Milford, Litchfield Co., Connecticut, USA. Collector: Hunt, C.B.

***Maclurina* cf. *M. manitobensis* (Whiteaves)**

HYPOTYPE YPM 17333

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.9, pl.6, f.3-5.

Late Ordovician. Float, Sutton Island, Canada. Collector: Cloud, P.E., 8/8/1939.

HYPOTYPE YPM 17334A, 17334B

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.9.

Late Ordovician. Cloud's locality 9b, S side of E central promontory of Sutton Island, Canada. Collector: Cloud, P.E., 8/9/1939.

***Macrocheilus* cf. *M. paludinaeformis* (Hall)**

HYPOTYPE YPM 9311

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.5.

Middle Pennsylvanian, Strawn Grp, Grindstone Creek Shale. Erath Co., Texas, USA. Collector: Schindel, D.E.

***Marginella incrassata* Nelson**

SYNTYPE YPM 508

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.197, pl.6, f.5.

Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.43, pl.1, f.9(left).

SYNTYPE YPM 31528

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.197, pl.6, f.6.

Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.43, pl.1, f.9(right).

SYNTYPE YPM 31529-31550

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.197.

Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.43.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Meekospira peracuta* (Girty)**

HYPOTYPE YPM 13751

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, tbl.(p.195), pl.27, f.2l.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.191, pl.92, f.3b.

HYPOTYPE YPM 13864

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, pl.27, f.2g.

HYPOTYPE YPM 13865

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, tbl.(p.195), pl.27, f.2e.

HYPOTYPE YPM 13866

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, pl.27, f.2a.

HYPOTYPE YPM 13867

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, tbl.(p.195), pl.27, f.2f.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

## HYPOTYPE YPM 13868

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, tbl.(p.195), pl.27, f.2j.

Pennsylvanian. Cap-rock of No. 8 coal, Sangamon Co., Illinois, USA. Collector: Henbest, L.G.

## HYPOTYPE YPM 13876

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, tbl.(p.195), pl.27, f.2h.

## HYPOTYPE YPM 13877

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, tbl.(p.195), pl.27, f.2i.

HYPOTYPE YPM 13878<sup>a</sup>

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, pl.27, f.2k.

## HYPOTYPE YPM 32918

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, pl.27, f.2b.

## HYPOTYPE YPM 32919

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, pl.27, f.2c.

## HYPOTYPE YPM 32920

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.195, pl.27, f.2d.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

*Meekospira* sp.

## HYPOTYPE YPM 13752

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.197, tbl.(p.198), pl.27, f.1a.

## HYPOTYPE YPM 32921

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.197, tbl.(p.198), pl.27, f.1b.<sup>a</sup>

## HYPOTYPE YPM 32922

Knight, J.B. 1932a. J. Paleont. v.6, n.2, p.197, tbl.(p.198), pl.27, f.1c.<sup>a</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater

branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>Cited as YPM 13752.

*Microdoma conicum* Meek and Worthen

## HYPOTYPE YPM 13856

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.48, pl.(p.49), pl.9, f.1i.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.196.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

## HYPOTYPE YPM 13885

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.48, pl.9, f.1a.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.196.

HYPOTYPE YPM 13886<sup>a</sup>

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.48, pl.12, f.6a,6b.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.196.

## HYPOTYPE YPM 32937

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.48, pl.9, f.1b.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.196.

## HYPOTYPE YPM 32938

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.48, pl.9, f.1c.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.196.

## HYPOTYPE YPM 32939

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.48, pl.9, f.1d.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.196.

## HYPOTYPE YPM 32940

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.48, tbl.(p.49), pl.9, f.1e.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.196.

## HYPOTYPE YPM 32941

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.48, pl.9, f.1f.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.196.

## HYPOTYPE YPM 32942

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.48, tbl.(p.49), pl.9, f.1g.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.196.

## HYPOTYPE YPM 32943

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.48, tbl.(p.49), pl.9, f.1h.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.196.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

***Morania (?) sp.***

## HYPOTYPE YPM 28342

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.38, pl.4, f.5.

Early Silurian, Ross Brook Fm, Ross Brook Lower Mbr. Splintery mudstone, in place, 2002 ft above "Arisaig Grp" section base along Northumberland Strait shore, exposed at E side of mouth of valley of McAdam Brook, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Mourlonia lirata* Tyler**

## PARATYPE YPM 23685

Tyler, J.H. 1965. J. Paleont. v.39, n.3, p.342, pl.48, f.7.

Middle Devonian, Hamilton Grp, Ludlowville Fm, Centerfield Limestone Mbr. Bioherm facies, Four Mile Dam on Thunder Bay River, SW SE

sec07T31NR08E, Alpena Co., Michigan, USA. Collector: Cloud, P.E. and Yang, Z., 1938.

***Murchisonia (s.l.) antigenishensis* Peel**

## HOLOTYPE YPM 28345

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.36, pl.4, f.24.<sup>a</sup>

Silurian, Moydart Fm. At Sutherland River, 2385 ft elevation, Pictou Co., Nova Scotia, Canada. Collector: Maehl, R.H., 1959.

<sup>a</sup>The specimen figured on pl.4, f.24 is a silicon rubber impression of a natural mold.

***Murchisonia gouldii* Beede**

## HYPOTYPE YPM 15329

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.306, pl.5, f.3.<sup>a</sup>

## HYPOTYPE YPM 15330

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.306, pl.5, f.4.<sup>a</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Base of Dozier on summit of Naco Butte (Mt. Nebo) on N side of highway, 3 mi W of Estelline (Hall Co.), Collingsworth Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 15331<sup>b</sup>

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.306, pl.5, f.10.<sup>a</sup>

HYPOTYPE YPM 15332<sup>b</sup>

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.306, pl.5, f.11.<sup>a</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of Dozier, sec 43, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

## HYPOTYPE YPM 15333

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.306, pl.5, f.12.<sup>a</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of Dozier, S side sec 78, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

## HYPOTYPE YPM 15334

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.306, pl.5, f.13.<sup>c</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of Dozier, sec 43, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

**HYPOTYPE** YPM 15335

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.306, pl.6, f.1d.<sup>a</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of Dozier, S side sec 78, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

<sup>a</sup>The figured specimen is a wax cast of a natural mold.

<sup>b</sup>This specimen is represented only by a wax cast. A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate the original. It is believed to be permanently lost.

<sup>c</sup>The wax cast figured on pl.5, f.13 is missing.

***Murchisonia (Hormotoma) amii* (McLearn)**

**HYPOTYPE** YPM 31367

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.34, pl.4, f.4.<sup>a</sup>

Late Silurian, Pridoli, Stonehouse Fm. In place, 3805-3850 ft elevation, McAdam Brook, Coast Section, Arisaig Point, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Naylor and Field, 1959.

<sup>a</sup>Cited as YPM 28337B. The specimen figured on pl.4, f.4 is a silicon rubber impression of a natural mold.

***Murchisonia (Hormotoma) sp. A***

**HYPOTYPE** YPM 28339

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.35, pl.4, f.23.

Early Silurian, Llandoveryan, Ross Brook Fm, Ross Brook Upper Mbr. 6 in silty shale, in place, 1289 ft above base of Arisaig Grp section, exposed along shore approx. 275 ft E of mouth of French Brook, approx. 0.5 mi W of the mouth of Arisaig Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Murchisonia (Hormotoma) sp. B***

**HYPOTYPE** YPM 28340

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.35, pl.3, f.3.

Middle Silurian, McAdam Brook Fm, McAdam Brook Upper Mbr. 7 in thick mudstone, in place, 2155 ft

above base of Arisaig Grp section, exposed along Northumberland Strait shore, approx. 1000 ft W of mouth of McAdam Brook, approx. 1250 ft E of McAdams Point, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Murchisonia (Murchisonia) subulata* Tyler**

**HOLOTYPE** YPM 16480

Tyler, J.H. 1965. J. Paleont. v.39, n.3, p.347, pl.47, f.33.

Middle Devonian, Hamilton Grp, Ludlowville Fm, Centerfield Limestone Mbr. Bioherm facies, Four Mile Dam on Thunder Bay River, SW SE sec07T31NR08E, Alpena Co., Michigan, USA. Collector: Cloud, P.E. and Yang, Z., 1938.

***Murchisonia (Sinuspira) cf. M. (S.) tenera* (Perner)**

**HYPOTYPE** YPM 28338

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.36, pl.4, f.6.

Early Silurian, Llandoveryan, McAdam Brook Fm, McAdam Brook Lower Mbr. 6 in thick silty mudstone, in place, 2004 ft above Arisaig Grp section base, along Northumberland Strait shore, exposed on E side of mouth of valley of McAdam Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Murchisonia?* sp.**

**HYPOTYPE** YPM 25937

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.111, pl.19, f.3.

**HYPOTYPE** YPM 25938

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.111, pl.19, f.4.

Late Ordovician, Reedsville Fm. Muddy siltstone and shale, roadcut 2.0 mi SW of Klondike, along TN Rt. 66, Tennessee, USA. Collector: Bretsky, P.W., 6/1966.

***Murex laqueoratus* Spieker**

**HOLOTYPE** YPM 502

Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.51, pl.2, f.4.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Myurella tuberosa* Nelson**

SYNTYPE YPM 531

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.193.

= *Terebra tuberosa*. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.36, pl.1, f.2.= *Terebra (Strioterebrum) nelsoni* Hanna and Israelsky. HYPOTYPE. Pilsbry, H.A. and A.A. Olsson. 1941. Proc. Philadelphia Acad. Nat. Sci. v.93, p.14, pl.1, f.3.<sup>a</sup>

SYNTYPE YPM 31553, 31554

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.193.

= *Terebra tuberosa*. Spieker, E.M. 1922. Johns Hopkins Univ. Stud. Geol. n.3, p.36.= *Terebra (Strioterebrum) nelsoni* Hanna and Israelsky. HYPOTYPE. Pilsbry, H.A. and A.A. Olsson. 1941. Proc. Philadelphia Acad. Nat. Sci. v.93, p.14.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

<sup>a</sup> Incorrectly cited as the holotype of *T. tuberosa*. on p.14 and as a lectotype in the explanation for pl.1, f. 3.***Nassa zorritensis* (Nelson)**See *Argobuccinum zoritense* Nelson.***Natica indurata* Conrad**

SYNTYPE YPM 17035

Conrad, T.A. 1852. Washington, D.C. (U.S.) Natl. Obs. p.220.

Beecher, C.E. 1900. Am. J. Sci. v.159, p.177.<sup>a</sup>

SYNTYPE YPM 17039, 24849

Conrad, T.A. 1852. Washington, D.C. (U.S.) Natl. Obs. p.220.

= *Natica indurata*? Beecher, C.E. 1900. Am. J. Sci. v.159, p.177.<sup>a</sup>

Cretaceous. Mount Lebanon [Lebanon Range], Lebanon.

<sup>a</sup> Incorrectly cited as paratype.***Natica indurata?* Conrad**See *Natica indurata* Conrad.***Natica syriaca* Conrad**

SYNTYPE YPM 17036

Conrad, T.A. 1852. Washington, D.C. (U.S.) Natl. Obs. p.220.

Beecher, C.E. 1900. Am. J. Sci. v.159, p.177.<sup>a</sup>

Cretaceous. Mount Lebanon [Lebanon Range], Lebanon.

<sup>a</sup> Incorrectly cited as paratype.***Naticonema kauffmani* Peel**See *Holopea* sp.***Naticopsis howi* Dawson**

HYPOTYPE YPM 27277

Bell, W.A. 1929. Mem. Canada Geol. Surv. n.155, p.178, pl.31, f.14.<sup>a</sup>

Late Mississippian, Windsor Grp. Lower Windsor, subzone B, Maxner Point, Windsor, Hants Co., Nova Scotia, Canada. Collector: Schuchert, C., 1905.

<sup>a</sup> Incorrectly cited as collection 2836.***Naticopsis judithae* Knight**

HOLOTYPE YPM 14161A

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.382, tbl.(p.383), pl.44, f.7a,7b.

PARATYPE YPM 14161B

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.382, tbl.(p.383), pl.44, f.7c,7d.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Naticopsis marthae* Knight**

HOLOTYPE YPM 14156

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.381, tbl.(p.381), pl.41, f.1i,1j.

PARATYPE YPM 25829

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.381, tbl.(p.381), pl.41, f.1a,1b.

PARATYPE YPM 25830

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.381, pl.41, f.1c,1d.

PARATYPE YPM 25831

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.381, tbl.(p.381), pl.41, f.1e,1f.

PARATYPE YPM 25832

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.381, tbl.(p.381), pl.41, f.1g,1h.

PARATYPE YPM 25833

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.381, pl.41, f.1k.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Naticopsis meeki* Knight**

HOLOTYPE YPM 14157

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.373, tbl.(p.373), pl.42, f.1b.

PARATYPE YPM 25817

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.373, tbl.(p.373), pl.42, f.1a.

PARATYPE YPM 25818

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.373, pl.42, f.1c.

PARATYPE YPM 25819

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.373, pl.42, f.1d,1e.

PARATYPE YPM 25820

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.373, pl.42, f.1f.

PARATYPE YPM 25821

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.373, tbl.(p.373), pl.42, f.1g,1h,2b.

PARATYPE YPM 25822

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.373, tbl.(p.373), pl.42, f.1i,1j.

PARATYPE YPM 25823

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.373, tbl.(p.373), pl.42, f.1k,1l.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

**?*Naticopsis* (*Naticopsis*) sp.**

HYPOTYPE YPM 20102

Gordon, M., Jr. 1975. U.S. Geol. Surv. Prof. Pap. n.848-D, tbl.3.

Mississippian, Amsden Fm. 66-70 ft above Amsden base, W side Wiggins Fork, Washakie Range, sec18T42NR105W, Fremont Co., Wyoming, USA. Collector: Love, J.D., 1937.

***Naticopsis scintilla* Girty**

HYPOTYPE YPM 14151A

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.374, pl.40, f.1c,1d.

HYPOTYPE YPM 14151B

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.374, pl.40, f.1e,1f.

HYPOTYPE YPM 14152A

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.374, pl.40, f.1g.

HYPOTYPE YPM 14152B

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.374, pl.40, f.1h.

HYPOTYPE YPM 14152C

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.374, pl.40, f.1i,1j.

HYPOTYPE YPM 14153

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.374, pl.40, f.1k.

Late Pennsylvanian, Missourian, Kansas City Grp, Drum Limestone. Kansas City, Jackson Co., Missouri, USA. Collector: Beecher, C.E.

***Naticopsis subovata* Worthen**

HYPOTYPE YPM 13895A

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.379, pl.43, f.2j.

HYPOTYPE YPM 13895B-13895D

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.379.

Late Pennsylvanian, Missourian, Kansas City Grp, Chanute Shale. Along Turkey Creek, Kansas City,

Jackson Co., Missouri, USA. Collector: Greger, D.K., 1919.

***Naticopsis transversus* (Beede)**

HYPOTYPE YPM 15337

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.312, pl.6, f.3a.

HYPOTYPE YPM 15338

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.312, pl.7, f.4.<sup>a</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of Dozier, sec 43, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 15339

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.312, pl.7, f.5,6.<sup>b</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of Dozier, S side sec 78, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 15340

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.312, pl.7, f.7.<sup>c</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm. Texas, USA. Collector: Roth, R.I.

<sup>a</sup>The wax cast on pl.7, f.4 is missing.

<sup>b</sup>The figured specimen is a wax cast of a natural mold.

<sup>c</sup>The wax cast on pl.7, f.7 is missing.

***Naticopsis trevorpatriciorum* Peel**

HOLOTYPE YPM 28332

Peel, J.S. 1975. Can. J. Ea. Sci. v.12, n.9, p.1531, pl.1, f.5.

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.33, pl.3, f.2.

Silurian, Moydart Fm. E of Peabody locality B9768, zone a of McLearn, along shore between the point at the E side of McDonald's Cove and McAdam Brook, SW of Arisaig Point, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Twenhofel, W.H., 1908.

***Naticopsis ventricosa* (Norwood and Pratten)**

HYPOTYPE YPM 13894A

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.369, pl.41, f.2d.

HYPOTYPE YPM 13894B, 13894C

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.369.

Middle Pennsylvanian, Desmoinesian, Cherokee Shale. Garland, Henry Co., Missouri, USA. Collector: Owen, J.

HYPOTYPE YPM 14154

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.369, pl.41, f.2b.

Middle Pennsylvanian, Marmaton Grp, Fort Scott Limestone. Shale partings in the lower Fort Scott, C.R.I. & P. Railroad cut, 200 yd E of railroad station, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 14155A

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.369, tbl.(p.370), pl.41, f.2a.

HYPOTYPE YPM 14155B

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.369, tbl.(p.370), pl.41, f.2c.

HYPOTYPE YPM 14155C

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.369, tbl.(p.370), pl.41, f.2e-2g.

HYPOTYPE YPM 14155D

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.369, tbl.(p.370), pl.41, f.2h-2j.

HYPOTYPE YPM 14155E

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.369, pl.42, f.2a.

Middle Pennsylvanian, Desmoinesian, Cherokee Shale. Garland, Henry Co., Missouri, USA. Collector: Owen, J.

HYPOTYPE YPM 14159A

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.369, pl.44, f.1a.

HYPOTYPE YPM 14159B

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.369, pl.44, f.1b.

Pennsylvanian. Peoria Co., Illinois, USA. Collector: Marsh, O.C.

***Naticopsis virgata* Knight**

HOLOTYPE YPM 14160A

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.380, tbl.(p.380), pl.44, f.6c,6d.

PARATYPE YPM 14160B

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.380, tbl.(p.380), pl.44, f.6a.

PARATYPE YPM 14160C

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.380, pl.44, f.6b.

PARATYPE YPM 14160D

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.380, tbl.(p.380), pl.44, f.6e,6f.

PARATYPE YPM 14160E

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.380, tbl.(p.380), pl.44, f.6g.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Naticopsis wortheni* Knight<sup>a</sup>**

HOLOTYPE YPM 14158

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.377, tbl.(p.377), pl.43, f.3j,3k.

= *Naticopsis wortheniana* Knight. HOLOTYPE. Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.447.

PARATYPE YPM 25824

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.377, pl.43, f.3a.

= *Naticopsis wortheniana* Knight. PARATYPE. Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.447.

PARATYPE YPM 25825

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.377, tbl.(p.377), pl.43, f.3b,3d,3e.

= *Naticopsis wortheniana* Knight. PARATYPE. Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.447.

PARATYPE YPM 25826

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.377, pl.43, f.3c.

= *Naticopsis wortheniana* Knight. PARATYPE. Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.447.

PARATYPE YPM 25827

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.377, tbl.(p.377), pl.43, f.3f,3g.

= *Naticopsis wortheniana* Knight. PARATYPE. Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.447.

PARATYPE YPM 25828

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.377, tbl.(p.377), pl.43, f.3h,3i.

= *Naticopsis wortheniana* Knight. PARATYPE. Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.447.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup> *Naticopsis wortheni* Knight, 1933 was recognized to be a homonym of *Naticopsis wortheni* Weller, 1916; Knight therefore proposed the new name *Naticopsis wortheniana* Knight to replace it (Knight 1934b).***Naticopsis wortheniana* Knight**See *Naticopsis wortheni* Knight.***Natiria americana* (Girty)**

HYPOTYPE YPM 14165

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.391, tbl.(p.391), pl.46, f.7b.

HYPOTYPE YPM 25839

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.391, tbl.(p.391), pl.46, f.7a.

HYPOTYPE YPM 25840

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.391, tbl.(p.391), pl.46, f.7c.

Middle Pennsylvanian, Desmoinesian, Cherokee Shale. Garland, Henry Co., Missouri, USA. Collector: Owen, J.

***Nerinea syriaca* Conrad**

HOLOTYPE YPM 17032

Conrad, T.A. 1852. Washington, D.C. (U.S.) Natl. Obs. p.221, pl.12, f.72.

Beecher, C.E. 1900. Am. J. Sci. v.159, p.177.

Cretaceous. Mount Lebanon [Lebanon Range], Lebanon.

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.233.

***Oliva* sp. ind. A**

HYPOTYPE YPM 509

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.197.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 9, and float from the next few higher beds, the side of the arroyo NE of Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

***Oliva* sp. ind. B**

HYPOTYPE YPM 510

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.197.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Ophileta* aff. *O. compacta* Salter**

HYPOTYPE YPM 17283

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.7, pl.3, f.6,7.

Late Ordovician. Float, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., Ross, R., Ross, L., Washburn, A.L., Washburn, T.T., 1938.

***Ophileta sculpta* Cullison**

HOLOTYPE YPM 17140

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.52, pl.26, f.4,6.

Early Ordovician, Cotter Fm. Massive, gray granular dolomite, *Jeffersonia jennii* and *Campbelloceras simplex* zone of lower Cotter, road from MO Hwy 25 down to Crystal City Glass Workers Country Club, SW sec27T40NR06E, Jefferson Co., Missouri, USA. Collector: Cullison, J.S.

***Orthonema inornatum* Knight**

HOLOTYPE YPM 13946

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.446, tbl.(p.446), pl.57, f.1a-1c.

PARATYPE YPM 13947<sup>a</sup>

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.446.

PARATYPE YPM 13947A

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.446, tbl.(p.446).

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13948

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.446.

PARATYPE YPM 13948A

***Omphalotrochus obtusispira* (Shumard)**

HYPOTYPE YPM 17117

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.231.

Early Permian, Hueco Limestone. Middle Hueco, 0.5 mi NW of Hueco Inn, Hueco Mountains, Texas, USA. Collector: King, R.E.

***Omphalotrochus wolfcampensis***

**Yochelson**

HOLOTYPE YPM 17113

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.233, tbl.16, pl.14, f.4-6.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 9, and float from the next few higher beds, the side of the arroyo NE of Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

PARATYPE YPM 17114

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.233, pl.14, f.9.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 12, Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

PARATYPE YPM 17116

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.446, pl.57, f.1d.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This includes one specimen and a thin section.

***Orthonema marvinwelleri* Knight**

HOLOTYPE YPM 13944

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.444, tbl.(p.444), pl.57, f.3a.

PARATYPE YPM 13945A

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.444, tbl.(p.444), pl.57, f.3b.

PARATYPE YPM 13945B

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.444, tbl.(p.444), pl.57, f.3c.

PARATYPE YPM 13945C

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.444.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Orthonema schucherti* Knight**

HOLOTYPE YPM 13940

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.441, tbl.(p.441), pl.56, f.6a,6b.

PARATYPE YPM 13941

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.441, tbl.(p.441).

Late Pennsylvanian, Cisco Grp, Graham Fm, Jacksboro Limestone Mbr. 130 ft above Canyon Limestone, 10.5 mi SE of Graham on N Mineral Wells Tpk, Young Co., Texas, USA. Collector: Schuchert, C. and Bean, W.B., 1922.

***Orthonema werneri* Knight**

HOLOTYPE YPM 13942

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.441, tbl.(p.441-42), pl.56, f.7a,7b.

PARATYPE YPM 13943A

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.441, tbl.(p.441-42), pl.56, f.7c.

PARATYPE YPM 13943B

Knight, J.B. 1934b. J. Paleont. v.8, n.4, p.441, tbl.(p.441-42).

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Orthonychia parva* (Swallow)**

HYPOTYPE YPM 14283

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.163.

HYPOTYPE YPM 14283A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.163, pl.(p.163), pl.25, f.1a-1c.

HYPOTYPE YPM 14283B

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.163, pl.25, f.1d.

HYPOTYPE YPM 14283C

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.163, pl.25, f.1e.

HYPOTYPE YPM 14283D

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.163, pl.25, f.1f.

HYPOTYPE YPM 14283E

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.163, pl.25, f.1g.

HYPOTYPE YPM 14283F<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.163, pl.26, f.1a,1b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 14284

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.163. Middle Pennsylvanian, Marmaton Grp, Fort Scott Limestone. Lower Fort Scott, 0.25 mi W of courthouse, 100 yd S of Ladue Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

***Oxydiscus tenuis* Twenhofel**

HOLOTYPE YPM 10392

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.246, pl.25, f.13,14.

Ordovician, English Head Fm, English Head zone 3. English Head, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Palaeacmaea irregularis* Raymond**

SYNTYPE YPM 26962

Raymond, P.E. 1905. Am. J. Sci. v.170, p.376.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.174, pl.54, f.10.<sup>a</sup>

SYNTYPE YPM 26963

Raymond, P.E. 1905. Am. J. Sci. v.170, p.376.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.174, pl.54, f.11.<sup>a</sup>

SYNTYPE YPM 26964

Raymond, P.E. 1905. Am. J. Sci. v.170, p.376.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.174, pl.54, f.12.<sup>a</sup>

Middle Ordovician, Chazy Grp. From ledge in field N of Duprey road to Tracy Brook (middle of section of Brainard and Seeley), near Chazy, Clinton Co., New York, USA. Collector: Raymond, P.E., 1903.

<sup>a</sup>This specimen is described as a "cotype" of *Palaeacmaea irregularis* Raymond, although it was neither mentioned nor figured in Raymond (1905).

***Palaeostylus* cf. *P. (Pseudozygopleura) scitula* (Meek and Worthen)**

HOLOTYPE YPM 9307

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.1.

HOLOTYPE YPM 9308

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.2.

HOLOTYPE YPM 9309

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.3.

**HYPOTYPE YPM 9310**

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.4.

Middle Pennsylvanian, Strawn Grp, Grindstone Creek Shale. Erath Co., Texas, USA. Collector: Schindel, D.E.

***Parasmelia?* sp.**

HOLOTYPE YPM 14801

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.386, pl.3, f.11.

Late Cretaceous. Loose boulder brought up in a fisherman's trawl, from a depth of 200 fathoms, eastern part of Banquereau bank, off Sable Island, Nova Scotia, Canada. Collector: Olson, L.

***Perunassa zorritensis* (Nelson)**

See *Argobuccinum zorritense* Nelson.

***Pharetrolites bambachi* Peel**

HOLOTYPE YPM 28328

Peel, J.S. 1975. Can. J. Ea. Sci. v.12, n.9, p.1526, pl.1, f.16,18.

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.12, pl.2, f.9.

Early Silurian, Ross Brook Fm, Ross Brook Lower Mbr. 2 in thick mudstone, in place, 2036.5 ft above "Arisaig Grp" section base along Northumberland Strait shore, about 390 ft W of mouth of valley of McAdam Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Pharetrolites murchisoni* d'Orbigny**

HOLOTYPE YPM 28327

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.12, pl.1, f.29.

Late Silurian, Pridoli, Stonehouse Fm. Zone c of McLearn, along shore just SW of Stonehouse Brook, 2.4 mi SW of Arisaig Point, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Twenhofel, W.H., 1908.

See also *Bellerophon* sp.

***Phragmolites desideratus* (Billings)**

PARATYPE YPM 10383

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.247, pl.35, f.5.

Ordovician, Ellis Bay Fm, Ellis Bay zone 6. Cape James, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Phymatopleura brazoensis* (Shumard)**

HYPOTYPE YPM 9312

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.6.

HYPOTYPE YPM 9313

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.7.

Upper Pennsylvanian, Cisco Grp, Wayland Shale Fm. Parks Mountain, Coleman Co., Texas, USA. Collector: Schindel, D.E.

***Physa* cf. *ancillaria* Say**

HYPOTYPE YPM 12873A, 12873B

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.246.

Quaternary, Recent. Wabash time, a pit excavated in a hollow, a short distance NE of the Park Lane schoolhouse, 1.75 mi N of New Milford, Litchfield Co., Connecticut, USA. Collector: Hunt, C.B.

***Physa* cf. *heterostropha* (Say)**

HYPOTYPE YPM 12865

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.245.

HYPOTYPE YPM 12865A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.245, pl.4, f.14.

Quaternary, Recent. Wabash time, a pit excavated in a hollow, a short distance NE of the Park Lane schoolhouse, 1.75 mi N of New Milford, Litchfield Co., Connecticut, USA. Collector: Hunt, C.B.

***Plagioglypta girtyi* Knight**

HOLOTYPE YPM 15336

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.315, pl.6, f.2.<sup>a</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of Dozier, sec 43, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

PARATYPE YPM 50071<sup>b</sup>

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.315.

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Base of Dozier on summit of Mt. Nebo on the N side of highway, 3 mi W of Estelline (Hall Co.), Collingsworth Co., Texas, USA. Collector: Roth, R.I.

<sup>a</sup>The wax cast figured on pl.6, f.2 is missing.

<sup>b</sup>This includes one specimen (a natural mold) and a wax cast.

***Platyceras equilaterale* Hall**

HYPOTYPE YPM 30441<sup>a</sup>

Beecher, C.E. 1890. Am. J. Sci. v.140, p.244, pl.9, tf.24.

Beecher, C.E. 1898. Am. J. Sci. v.156, p.331, tf.53.

Early Mississippian, Edwardsville Fm. Crawfordsville, Montgomery Co., Indiana, USA. Collector: Bradley, F.H.

<sup>a</sup>A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Platyceras* (*Orthonychia*) *bowsheri*  
Yochelson variant 2**

HYPOTYPE YPM 50153

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.260.

Early Permian, Leonardian, Leonard Fm. 0.2 to 0.3 mi NE of Split Tank, 1.5 mi NE of Word Ranch house, also from the same horizon about 1 mi ENE of Split Tank; the Tank is on the line of Section 26, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

***Platyceras* (*Orthonychia*) sp.**

HYPOTYPE YPM 50151A, 50151B

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.260.<sup>a</sup>

Pennsylvanian, Gaptank Fm. Between conglomerates 4 and 5 (bed 10 of R.E. King), 1 ft thick *Isogramma* bed, capping a low hill in front of scarp, 1.25 mi E of N-S road and 2 mi slightly E of S from Gap Tank, Glass Mountains, Pecos Co., Texas, USA. Collector: Dunbar, C.O. and Morris, P.A., 7/20/1941.

HYPOTYPE YPM 50154A–50154C

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.260.

Early Permian, Leonardian, Leonard Fm. Above conglomerate bed near Word Ranch house, Glass

Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 50155

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.260.

Middle Permian, Word Fm. Second limestone, 0.5 mi N of hill 5611, Hess Canyon, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

<sup>a</sup>Only two specimens (YPM 50151A and YPM 50151B) are present, not three as stated on p. 260.

***Platyceras (Orthonychia) variabilis* Tyler**

SYNTYPE YPM 16487

Tyler, J.H. 1965. J. Paleont. v.39, n.3, p.345, pl.47, f.5,6,9,10.

Middle Devonian, Hamilton Grp, Ludlowville Fm, Centerfield Limestone Mbr. Bioherm facies, Four Mile Dam on Thunder Bay River, SW SE sec07T31NR08E, Alpena Co., Michigan, USA. Collector: Cloud, P.E. and Yang, Z., 1938.

***Platyceras (Platyostoma) cf. humilis*  
(Billings)**

HYPOTYPE YPM 31375

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.31.

Middle Silurian, Ross Brook Fm, Ross Brook Middle Mbr. 4 ft of beds, in place, 750-755 ft above base of Arisaig Grp section along Northumberland Strait shore, 625 ft E of Arisaig Brook mouth, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

***Platyceras* sp.**

HYPOTYPE YPM 50152A, 50152B

Yochelson, E.L. 1956. Bull. Am. Mus. Nat. Hist. v.110, art.3, p.260.

Early Permian, Wolfcampian, Wolfcamp Fm. Section 24, bed 9, and float from the next few higher beds, the side of the arroyo NE of Wolf Camp, Glass Mountains, Brewster Co., Texas, USA. Collector: King, R.E.

HYPOTYPE YPM 30427

Beecher, C.E. 1890. Am. J. Sci. v.140, p.244.

Early Mississippian, Edwardsville Fm. Crawfordsville, Montgomery Co., Indiana, USA. Collector: Bradley, F.H.

***Platyceras subumbonatum* Northrop**

HOLOTYPE YPM 13329

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.216, pl.23, f.5-7.

PARATYPE YPM 13330

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.216, pl.24, f.3-5.

Middle Silurian, West Point Fm. Mahan's limekiln, Indian Point, Port Daniel, Quebec, Canada. Collector: Schuchert, C. and Dart, J.D., 1923.

***Plectonotus cheryiae* Peel**

See *Plectonotus trilobatus* (Sowerby).

***Plectonotus?* sp.**

HYPOTYPE YPM 25911

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.101, pl.16, f.1,3.<sup>a</sup>

Late Ordovician, Martinsburg Fm. Muddy siltstone, friable, patches of lingulid fragments and phosphate nodules, roadcut about 12 mi W of Franklin, along US Rt. 33, Pendleton Co., Virginia, USA. Collector: Bretsky, P.W., 8/1965.

HYPOTYPE YPM 25912

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.101, pl.16, f.2.

Late Ordovician, Martinsburg Fm. Sandstone and siltstone, ferruginous stain, massively bedded, roadcut about 12 mi W of Franklin, along US Rt. 33, Pendleton Co., Virginia, USA. Collector: Bretsky, P.W., 8/1965.

HYPOTYPE YPM 25913

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.101, pl.16, f.4.

Late Ordovician, Reedsville Fm. Muddy siltstone, roadcut 12.5 mi N of Marion, along VA Primary Rt. 16, Walker Mountain, Virginia, USA. Collector: Bretsky, P.W., 7/1966.

HYPOTYPE YPM 25914

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.101, pl.16, f.5.

Late Ordovician, Martinsburg Fm. Muddy siltstone, friable, patches of lingulid fragments and phosphate nodules, roadcut about 12 mi W of Franklin, along US Rt. 33, Pendleton Co., Virginia, USA. Collector: Bretsky, P.W., 8/1965.

HYPOTYPE YPM 25915<sup>b</sup>

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.101, pl.16, f.6.

## HYPOTYPE YPM 25916

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.101, pl.16, f.7.

Late Ordovician, Martinsburg Fm. Siltstone, ferruginous stain, massively bedded, roadcut about 12 mi W of Franklin, along US Rt. 33, Pendleton Co., Virginia, USA. Collector: Bretsky, P.W., 8/1965.

## HYPOTYPE YPM 25917

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.101, pl.16, f.8.

## HYPOTYPE YPM 25918

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.101, pl.16, f.9.

Late Ordovician, Martinsburg Fm. Muddy siltstone, friable, patches of lingulid fragments and phosphate nodules, roadcut about 12 mi W of Franklin, along US Rt. 33, Pendleton Co., Virginia, USA. Collector: Bretsky, P.W., 8/1965.

<sup>a</sup>The specimen figured on pl.16, f.3 is a latex impression of an external mold.

<sup>b</sup>A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Plectronotus trilobatus* (Sowerby)**

## HYPOTYPE YPM 305

McLearn, F.H. 1924. Geol. Surv. Can. Mem. 137, p.140, pl.20, f.30,31.<sup>a</sup>

=*Plectronotus cherylae* Peel. HYPOTYPE. Peel, J.S. 1974. Bull. Geol. Soc. Denmark, v.23, p.254, pl.1, f.1,2.<sup>a</sup>

=*Plectronotus cherylae* Peel. HYPOTYPE. Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.14.<sup>a</sup>

Late Silurian, Pridoli, Stonehouse Fm. Springville, Nova Scotia, Canada. Collector: Honeyman, D., 1869.

<sup>a</sup>Incorrectly cited as YPM 479.

***Pleurotoma* sp. ind.**

## HYPOTYPE YPM 530

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.194.

=*Surcula nelsoni* Olsson. HOLOTYPE. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.150, pl.16, f.10.

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

***Pleurotomaria putillus* Northrop**

## HOLOTYPE YPM 13324

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.209, pl.20, f.3-5.

## PARATYPE YPM 13325

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.209.

## PARATYPE YPM 30858, 30859

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.209.<sup>a</sup>

Middle Silurian, Niagaran, West Point Fm, West Point Member I. At lighthouse, West Point, Quebec, Canada. Collector: Northrop, S.A., 1927.

<sup>a</sup>Cited as YPM 13325.

***Plocezyga corona* (Knight)**

See *Hemizyga* (*Plocezyga*) *corona* Knight.

***Poleumita chaleurensis* Northrop**

## HOLOTYPE YPM 13326

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.213, pl.22, f.1.

## PARATYPE YPM 30860

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.213, pl.23, f.3.<sup>a</sup>

Middle Silurian, Niagaran, La Vieille Fm. Ridge along boundary line between Ranges I and II in gorge of small Stream E of McPherson Road, Marciel, Quebec, Canada. Collector: Northrop, S.A., 1927.

<sup>a</sup>Cited as YPM 13326.

***Prosolarium cirrhosum* (Lindström)**

## HYPOTYPE YPM 14880

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.214, pl.24, f.6-8.

Middle Silurian, Niagaran, Gascons Fm. Morin Road, not far N of railroad crossing, Anse-a-la-Barbe, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Prosolarium platybasis* Northrop**

HOLOTYPE YPM 13320

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.215, pl.23, f.1,2.

Middle Silurian, Niagaran, Bouleaux Fm. Shore, E side of Reddish Point extending into Anse-aux-Gascons, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Prosolarium scalatum* Northrop**

HOLOTYPE YPM 14881

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.215, pl.24, f.1,2.

Middle Silurian, Niagaran, Gascons Fm. Dark green shale at mouth of Chourinard Brook E of Gascons, Quebec, Canada. Collector: Schuchert, C., 8/1923.

***Protowarthia rossi* Collie**

HOLOTYPE YPM 7932

Collie, G.L. 1903. Bull. Geol. Soc. Am. v.14, p.420, pl.59, f.6,7.

HYPOTYPE YPM 7932A

Collie, G.L. 1903. Bull. Geol. Soc. Am. v.14, p.420.

Middle Ordovician, Beekmantown Fm. Horizon A-3 of Collie, upper part of formation, thick-bedded dark crystalline limestone, stained with iron oxide, Bellefonte, Centre Co., Pennsylvania, USA. Collector: Collie, G.L., 1902.

***Protowarthia tenuissima* Collie**

HOLOTYPE YPM 7451

Collie, G.L. 1903. Bull. Geol. Soc. Am. v.14, p.420, pl.59, f.10,11.

Middle Ordovician, Trenton Limestone. Horizon A-8 of Collie, lower part of formation, black shaly limestone, Bellefonte, Centre Co., Pennsylvania, USA. Collector: Collie, G.L., 1902.

***Pseudozygopleura (Leptozyga) minuta* Knight**

HOLOTYPE YPM 12991

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.63, tbl.(p.63), pl.4, f.2.

= *Leptozyga minuta*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.172, pl.49, f.8.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) acuminata* Knight**

HOLOTYPE YPM 12981

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.55, tbl.(p.55), pl.3, f.3.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) assertonsoris* Knight**

HOLOTYPE YPM 12978

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.52, tbl.(p.52), pl.3, f.1a,1b.

PARATYPE YPM 13025

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.52.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) condrai* Knight**

HOLOTYPE YPM 12960

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.39, tbl.(p.39), pl.1, f.9.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) conica* Knight**

HOLOTYPE YPM 12959

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.39, tbl.(p.39), pl.2, f.1b.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) croneisi* Knight**

HOLOTYPE YPM 12952

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.32, tbl.(p.32), pl.1, f.3.

HYPOTYPE YPM 13023

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.32.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) deloi* Knight**

HOLOTYPE YPM 12971

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.47, tbl.(p.47), pl.2, f.10.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) girityi* Knight**

HOLOTYPE YPM 12958

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.38, tbl.(p.38), pl.1, f.6a.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13110

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.38, pl.1, f.6b.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) inornata* Knight**

HOLOTYPE YPM 12976

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.51, tbl.(p.51), pl.2, f.19.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) kellettae* Knight**

HOLOTYPE YPM 12974

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.49, tbl.(p.49), pl.2, f.15a.<sup>a</sup>

PARATYPE YPM 13024

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.49.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>Incorrectly cited as YPM 12794.

***Pseudozygopleura (Pseudozygopleura) leveneae* Knight**

HOLOTYPE YPM 12980

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.54, tbl.(p.54), pl.3, f.2a,2b.

PARATYPE YPM 13020

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.54.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) moorei* Knight**

HOLOTYPE YPM 12965

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.43, tbl.(p.43), pl.2, f.9.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) nigra* Knight**

HOLOTYPE YPM 12972

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.48, tbl.(p.48), pl.2, f.14a,14b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) obtusicacuminis* Knight**

HOLOTYPE YPM 12977

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.52, tbl.(p.52), pl.2, f.17.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) pagoda* Knight**

HOLOTYPE YPM 12968

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.45, tbl.(p.45), pl.2, f.6.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) perversa* Knight**

HOLOTYPE YPM 12983

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.56, tbl.(p.56), pl.2, f.12a.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) plummeri* Knight**

HOLOTYPE YPM 12961

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.40, tbl.(p.40), pl.1, f.10a.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13018

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.40, pl.1, f.10b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) pluricostata* Knight**

HOLOTYPE YPM 12970

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.46, tbl.(p.46), pl.2, f.11.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) praeacuta* Knight**

HOLOTYPE YPM 12982

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.55, tbl.(p.55), pl.3, f.4.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee

Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) pulchra* Knight**

HOLOTYPE YPM 12964

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.42, tbl.(p.42), pl.2, f.4.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) pupa* Knight**

HOLOTYPE YPM 12973

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.49, tbl.(p.49), pl.2, f.13.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) recticostata* Knight**

HOLOTYPE YPM 12975

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.50, tbl.(p.50), pl.2, f.16.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) restis* Knight**

HOLOTYPE YPM 12967

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.44, tbl.(p.44), pl.2, f.7.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) rothi* Knight**

HOLOTYPE YPM 12957

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.37, tbl.(p.37), pl.1, f.8.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) schucherti* Knight**

HOLOTYPE YPM 12969

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.46, tbl.(p.46), pl.2, f.8.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) scitula* (Meek and Worthen)**

HYPOTYPE YPM 12953

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.33, tbl.(p.33), pl.1, f.2b.<sup>a</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13021

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.33, tbl.(p.33), pl.1, f.2a.<sup>b</sup>

Middle Pennsylvanian, Marmaton Grp, Fort Scott Limestone. Lower Fort Scott, 0.25 mi W of courthouse, 100 yd S of Ladue Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13108

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.33, tbl.(p.33), pl.1, f.2c.<sup>c</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee

Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>Cited as "A" in the table on p.33.

<sup>b</sup>Cited as "B" in the table on p.33.

<sup>c</sup>Cited as "C" in the table on p.33.

***Pseudozygopleura (Pseudozygopleura) semicostata (Meek)***

HYPOTYPE YPM 12951

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.31, tbl.(p.31), pl.1, f.1b.

=*Pseudozygopleura semicostata*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.282.

HYPOTYPE YPM 13107

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.32, pl.1, f.1c.

=*Pseudozygopleura semicostata*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.282.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) sinuosior Knight***

HOLOTYPE YPM 12963

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.42, tbl.(p.42), pl.2, f.3.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) sp. A***

HYPOTYPE YPM 12954

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.35, pl.1, f.4.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton

Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) sp. undet.***

HYPOTYPE YPM 13015

Knight, J.B. 1930. J. Paleont. v.4, n.4, pl.5, f.11,12.

Middle Pennsylvanian, Henrietta Fm. St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) tenuivirga Knight***

HOLOTYPE YPM 12979

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.53, tbl.(p.53), pl.2, f.18b.

PARATYPE YPM 13016

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.54, pl.2, f.18a.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) terebra Knight***

HOLOTYPE YPM 12966

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.44, tbl.(p.44), pl.2, f.5.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) trochus Knight***

HOLOTYPE YPM 12956

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.37, tbl.(p.37), pl.1, f.7.<sup>a</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>Incorrectly cited as pl.38, f.7.

***Pseudozygopleura (Pseudozygopleura) werneri* Knight**

HOLOTYPE YPM 12962

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.41, tbl.(p.41), pl.2, f.2.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pseudozygopleura) williamsi* Knight**

HOLOTYPE YPM 12955

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.36, tbl.(p.36), pl.1, f.5a.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13109

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.36, pl.1, f.5b.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pyrgozyga) cylindrata* Knight**

HOLOTYPE YPM 12984

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.57, tbl.(p.57), pl.3, f.6b.

=Pyrgozyga cylindrata. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.293, pl.49, f.10.

PARATYPE YPM 13105

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.57.

=Pyrgozyga cylindrata. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.293.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee

Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pyrgozyga) dunbari* Knight**

HOLOTYPE YPM 12986

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.58, tbl.(p.58), pl.3, f.8a.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13019

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.58, pl.3, f.8b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pyrgozyga) funis* Knight**

HOLOTYPE YPM 12988

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.60, tbl.(p.60), pl.3, f.10.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pyrgozyga) macra* Knight**

HOLOTYPE YPM 12985

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.58, tbl.(p.58), pl.3, f.7a.

PARATYPE YPM 13101

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.58, pl.3, f.7c.

PARATYPE YPM 25805

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.58, pl.3, f.7d.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pygozyga) marvinwelleri* Knight**

HOLOTYPE YPM 12987

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.59, tbl.(p.59), pl.3, f.9a.

PARATYPE YPM 13017

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.59, pl.3, f.9b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura (Pygozyga) warthini* Knight**

HOLOTYPE YPM 12989

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.61, tbl.(p.61), pl.3, f.5

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pseudozygopleura semicostata* (Meek)**

See *Pseudozygopleura (Pseudozygopleura) semicostata* (Meek).

***Pseudozygopleura (Stephanozyga) subnodosa* Knight**

HOLOTYPE YPM 12990

Knight, J.B. 1930. J. Paleont. v.4, n.4, p.62, tbl.(p.62), pl.4, f.1.

Middle Pennsylvanian, Marmaton Grp, Fort Scott Limestone. Exposures exhumed during subdivision grading and no longer exposed of lower Forts Scott in steep embankment in the rear of new buildings on Pershing Avenue at Cleveland Walk, University City, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Pterotheca anticostiana* Twenhofel**

HOLOTYPE YPM 10369

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.255, pl.26, f.8.

Ordovician, Vaureal Fm, Vaureal zone 4. Baie Ste. Claire, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

PARATYPE YPM 20249, 20525

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.255.

Ordovician, English Head Fm, English Head zone 9. Mugg River, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 7/25/1919.

***Pygozyga cylindrata* (Knight)**

See *Pseudozygopleura (Pygozyga) cylindrata* Knight.

***Raphistoma immaturum* (Billings)**

HYPOTYPE YPM 26973

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.182, tf.2.

Middle Ordovician, Chazy Grp. Near Normal School, Plattsburgh, Clinton Co., New York, USA.

***Raphistoma stamineum***

HYPOTYPE YPM 26967

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.180, pl.47, f.11.

HYPOTYPE YPM 26968

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.180, pl.47, f.12.

HYPOTYPE YPM 26969

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.180, pl.47, f.13.

HYPOTYPE YPM 26970

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.180, pl.48, f.4.

HYPOTYPE YPM 26971

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.180, pl.48, f.3.

HYPOTYPE YPM 26972

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.180, pl.48, f.5, 6.

Middle Ordovician, Chazy Grp. From ledge in field N of Duprey road to Tracy Brook (middle of section of Brainard and Seeley), near Chazy, Clinton Co., New York, USA. Collector: Raymond, P.E., 1903.

**HYPOTYPE YPM 50146<sup>a</sup>**

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.180, pl.48, f.2.

Middle Ordovician. Chazy, Clinton Co., New York, USA.

<sup>a</sup>A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Raphistoma striatum* (Emmons)**

**HYPOTYPE YPM 7407**

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.178, pl.47, f.4-6.

**HYPOTYPE YPM 7407A**

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.178.

Middle Ordovician, Aylmer Sandstone. Aylmer, Quebec, Canada. Collector: Raymond, P.E.

***Raphistoma vaurealensis* Twenhofel**

**HOLOTYPE YPM 22768**

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.235, pl.25, f.1,2.

Ordovician, Vaureal Fm, Vaureal zone 3. Mouth of Vaureal River, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Raphistomina inflata* Cullison**

**PARATYPE YPM 17139**

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.51, pl.26, f.2.

Early Ordovician, Theodosia Fm. Residual chert, lower Theodosia, W side of MO Hwy 76A at Rockaway Beach, 160-170 ft above lake level, center SE sec12T23NR21W, Taney Co., Missouri, USA. Collector: Cullison, J.S.

***Raphistomina laurentina* (Billings)**

**HYPOTYPE YPM 26195**

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.58, pl.8, f.12.

Ordovician, Mingan Fm. Lower 50 or 60 ft of Mingan on Quarry or Sea Cow Islands or Clearwater

Point, Gaspe Peninsula, Quebec, Canada. Collector: Twenhofel, W.H.

**HYPOTYPE YPM 26196**

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.58, pl.10, f.4.

Early Ordovician, Romaine Fm. Trilobite Bay, between Ammonite Point and St. Charles Island, Mingan Islands region, Gulf of St. Lawrence, Quebec, Canada. Collector: Twenhofel, W.H.

**HYPOTYPE YPM 26197**

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.58, pl.11, f.3.

Early Ordovician, Romaine Fm. Top of formation, Sea Cow Island, Mingan Islands, Gulf of St. Lawrence, Quebec, Canada. Collector: Twenhofel, W.H.

***Raphistomina pillagensis* Twenhofel**

**HOLOTYPE YPM 26223**

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.58, pl.11, f.5.

**PARATYPE YPM 26222**

Twenhofel, W.H. 1938. Geol. Soc. Am. Spec. Pap. 11, p.58, pl.11, f.4.<sup>a</sup>

Early Ordovician, Romaine Fm. Pillage Bay, E of Betchewan Bay, N of Ste. Genevieve Island, Mingan Islands Region, Gulf of St. Lawrence, Quebec, Canada. Collector: Twenhofel, W.H.

<sup>a</sup>Cited as cotype on pl.11, f.4.

***Raphistomina undulata* Raymond**

See *Raphistomina undulatum* Raymond.

***Raphistomina undulatum* Raymond**

**SYNTYPE YPM 26974**

Raymond, P.E. 1906b. Ann. Carnegie Mus. v.3, n.4, p.576.

=*Raphistomina undulata*. Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.183, pl.48, f.7.

**SYNTYPE YPM 26975**

Raymond, P.E. 1906b. Ann. Carnegie Mus. v.3, n.4, p.576.

=*Raphistomina undulata*. Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.183, pl.48, f.8-10.

Middle Ordovician, Chazy Grp. Sloop Bay, Valcour Island, Clinton Co., New York, USA. Collector: Raymond, P.E.

***Rhabdotocochlis rugata* Knight**

HOLOTYPE YPM 13858

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.51, tbl.(p.51), pl.10, f.1a,1b.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.298, pl.56, f.3a,3b.

PARATYPE YPM 13871

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.51, tbl.(p.51), pl.10, f.1c,1d.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.298.

PARATYPE YPM 13872<sup>a</sup>

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.51, pl.12, f.4.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.298.

PARATYPE YPM 32927

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.51, tbl.(p.51), pl.10, f.1e,1f.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.298.<sup>b</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

<sup>b</sup>Cited as YPM 13871.

***Ruedemannia lirata* (Ulrich and Scifiled)**

HYPOTYPE YPM 25927

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.104, pl.18, f.1.<sup>a</sup>

Late Ordovician, Reedsville Fm. Interbedded sandstone and shale, Bald Eagle-Reedsville contact covered, sample near top of bench covered with Obe slump, roadcut 1.0 mi S of Pleasant Gap, along PA Rt. 53, Centre Co., Pennsylvania, USA. Collector: Bretsky, P.W., 5/1966.

HYPOTYPE YPM 25928<sup>b</sup>

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.104, pl.18, f.2.

Late Ordovician, Reedsville Fm. Interbedded shale and ferruginous sandstone, occasional shale pebble conglomerate, quarry 1.0 mi S of Rauchtown within PA State Park grounds a few hundred yd E of PA Rt. 880, Clinton Co., Pennsylvania, USA. Collector: Bretsky, P.W., 5/1966.

<sup>a</sup>The specimen figured on pl.18, f.1 is a latex impression of a natural mold.

<sup>b</sup>This includes a natural cast, a natural mold, and a latex impression.

***Saffordella tennesseensis* Dunbar**

HOLOTYPE YPM 9728

Dunbar, C.O. 1920. Trans. Conn. Acad. Arts Sci. v.23, p.142, pl.4, f.17.

Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.304, pl.86, f.2.

Early Devonian, Linden Grp, Rockhouse Shale. Float 10-20 ft above base of Rockhouse, on Horse Creek, about 5 mi W of Lowryville, bluff about 200 yd above clubhouse, Hardin Co., Tennessee, USA. Collector: Dunbar, C.O., 1916.

***Salpingostoma dilatatum* (Sowerby)**

HYPOTYPE YPM 13315

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.206.

Middle Silurian, Niagaran, La Vieille Fm. Along railroad cut just W of Peabody locality B0900, W of water tower, Anse-a-la-Vieille, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Salpingostoma inornatum* Northrop**

HOLOTYPE YPM 13314

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.207, pl.21, f.5.

Middle Silurian, Niagaran, La Vieille Fm. Shore W of Peabody locality B0897, Anse-a-la-Vieille, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Salpingostoma orientalis* Twenhofel**

HOLOTYPE YPM 10366

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.248, pl.26, f.1,2.

Silurian, Jupiter Fm, Jupiter zone 3. Heath Point, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Salpingostoma* sp.**

HYPOTYPE YPM 26942

Shrock, R.R. and W.H. Twenhofel. 1939. J. Paleont. v.13, n.3, p.263.

Early Silurian, Pike Arm Fm. Fossiliferous argillite on Fossil Point, Pike Arm, New World Island, 0.25 mile E of canal between Pike and Herring Arms, Newfoundland, Canada. Collector: Twenhofel, W.H., 1936.

***Scalites angulatus* Emmons**

HYPOTYPE YPM 26976

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.183, pl.48, f.14.

Middle Ordovician, Chazy Grp. Chazy, Clinton Co., New York, USA.

HYPOTYPE YPM 26977

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.183, pl.48, f.15.

Middle Ordovician, Chazy Grp. Near Normal School, Plattsburgh, Clinton Co., New York, USA.

HYPOTYPE YPM 26978

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.183, pl.48, f.16.

Middle Ordovician, Chazy Grp. Chazy, Clinton Co., New York, USA.

***Scenella montrealensis* (Billings)**

HYPOTYPE YPM 26958

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.173, pl.46, f.9.

HYPOTYPE YPM 26959

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.173, pl.46, f.10.

Middle Ordovician, Chazy Grp. From ledge in field N of Duprey road to Tracy Brook (middle of section of Brainard and Seeley), near Chazy, Clinton Co., New York, USA. Collector: Raymond, P.E., 1903.

***Scenella pretensa* Raymond**

HOLOTYPE? YPM 26960

Raymond, P.E. 1905. Am. J. Sci. v.170, p.375.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.174, pl.46, f.11-13.<sup>a</sup>

Middle Ordovician, Chazy Grp. Lenoirs, Loudon Co., Tennessee, USA.

<sup>a</sup>This specimen was described as the "type" of *Scenella pretensa* Raymond, although it was neither mentioned nor figured in Raymond (1905).***Scenella robusta* Raymond**

PARATYPE? YPM 26961

Raymond, P.E. 1905. Am. J. Sci. v.170, p.376.<sup>a</sup>

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.174, pl.47, f.2,3.

Middle Ordovician, Chazy Grp. Lenoirs, Loudon Co., Tennessee, USA.

<sup>a</sup>This specimen is labeled as a "paratype" of *Scenella robusta* Raymond, although it was neither figured nor mentioned in Raymond (1905).***Schizolopha gigantea* Twenhofel**

HOLOTYPE YPM 10373

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.240, pl.25, f.6.

Ordovician, Ellis Bay Fm, Ellis Bay zone 6. Cape Eagle, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Seelya moydartensis* McLearn**

HOLOTYPE YPM 269

McLearn, F.H. 1924. Geol. Surv. Can. Mem. 137, p.145, pl.21, f.11.<sup>a</sup>Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.37, pl.3, f.17.<sup>a</sup>

PARATYPE YPM 270

McLearn, F.H. 1924. Geol. Surv. Can. Mem. 137, p.145, pl.21, f.12.<sup>b</sup>Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.37, pl.3, f.12.<sup>b</sup>

HYPOTYPE YPM 28331

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.37, pl.3, f.18.

Late Silurian, Moyart Fm. Zone a of McLearn, along shore, between the point at the E side of McDonald's Cove and McAdam Brook, SW of Arisaig Point, Arisaig, Antigonish Co., Nova Scotia, Canada. Collector: Twenhofel, W.H., 1908.

<sup>a</sup>Incorrectly cited as YPM 464.<sup>b</sup>Incorrectly cited as YPM 464a.

***Seelya* sp.**

HYPOTYPE YPM 25924

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.105, pl.17, f.4.

Late Ordovician, Reedsville Fm. Ferruginous stained sandstone and shale pebble conglomerate, roadcut 3.0 mi S of Water Lick, along VA Secondary Rt. 678, Massanutten Mountain, Virginia, USA. Collector: Bretsky, P.W., 7/1966.

***Sellinema?* sp.**

HYPOTYPE YPM 17273

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.10.

HYPOTYPE YPM 17273B

Miller, A.K. and W. Youngquist. 1947. J. Paleont. v.21, n.1, p.10, pl.3, f.10.

Late Ordovician. Bed O, Cloud's locality 4, Fossil Point, Read Island, Canada. Collector: Cloud, P.E., 8/6/1939.

***Sinuopea?* sp.**HYPOTYPE YPM 25935<sup>a</sup>

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.110, pl.19, f.1.

HYPOTYPE YPM 25936

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.110, pl.19, f.2.<sup>b</sup>

Late Ordovician, Reedsville Fm. Ferruginous stained sandstone and shale pebble conglomerate, roadcut 3.0 mi S of Water Lick, along VA Secondary Rt. 678, Massanutten Mountain, Virginia, USA. Collector: Bretsky, P.W., 7/1966.

HYPOTYPE YPM 36263<sup>c</sup>

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.110.

Late Ordovician, Reedsville Fm. Originally stained sandstone, biogenic reworking, roadcut 4.5 mi S of Loysburg, along PA Rt. 36, Bedford Co., Pennsylvania, USA. Collector: Bretsky, P.W., 6/1966.

<sup>a</sup>This includes one specimen and three latex impressions.<sup>b</sup>The specimen figured on pl.19, f.2 is a latex impression of a natural mold.<sup>c</sup>This includes one specimen (a natural mold) and three latex impressions.***Solarium sexlineare* Nelson**

SYNTYPE YPM 527

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.194, pl.6, f.11.

=Architectonica (Architectonica) sexlinearis. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.213, pl.21, f.7,10.<sup>a</sup>=Architectonica (Architectonica) nobilis nobilis Roding. HYPOTYPE. Woodring, W.P. 1959. U.S. Geol. Surv. Prof. Pap. n.306-B, p.165.<sup>b</sup>

SYNTYPE YPM 31616, 31617

Nelson, E.T. 1870. Trans. Conn. Acad. Arts Sci. v.2, pt.1, p.194.

=Architectonica (Architectonica) sexlinearis. Olsson, A.A. 1932. Bull. Am. Paleont. v.19, n.68, p.213.

=Architectonica (Architectonica) nobilis nobilis Roding. HYPOTYPE. Woodring, W.P. 1959. U.S. Geol. Surv. Prof. Pap. n.306-B, p.165.<sup>c</sup>

Tertiary, Miocene, Zorritos Fm. Undifferentiated Zorritos in a small block of down-faulted beds exposed near the mouth of Quebrada Tucillal, just N of the Zorritos schoolhouse, Peru. Collector: Bradley, F.H. and Larkin, E.P., 1867.

<sup>a</sup>Incorrectly cited as the holotype.<sup>b</sup>Incorrectly cited as the type.<sup>c</sup>Incorrectly cited as paratype.***Soleniscus (Bulimorpha) bulimiformis* (Hall)**

HYPOTYPE YPM 32877

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.193, pl.26, f.4b.

=Bulimorpha bulimiformis. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.63, pl.94, f.1c.<sup>a</sup>

HYPOTYPE YPM 33204

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.193, pl.26, f.4a.

=Bulimorpha bulimiformis. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.63, pl.94, f.1b,1d.<sup>b</sup>

Late Mississippian, Meramecian, Warsaw Limestone. Harrodsberg, Monroe Co., Indiana, USA.

<sup>a</sup>Incorrectly cited as pl.94, f.1d.<sup>b</sup>Incorrectly cited as pl.94, f.1c.

***Soleniscus (Cylindritopsis) vaningeni*  
Knight**

HOLOTYPE YPM 13158

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.223, tbl.(p.223), pl.21, f.3a,3b,3d.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13190

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.223, tbl.(p.223), pl.21, f.3c.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13199<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.223, pl.27, f.4

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.***Soleniscus (Macrochilina) arculata*  
(Schlotheim)**HYPOTYPE YPM 32878<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, pl.26, f.8.

<sup>a</sup>Knight (1931) does not report a locality for this specimen. Furthermore, a thorough search of the collections by the curatorial staff in the 1990s could not locate this specimen. It is believed to be permanently lost.***Soleniscus (Macrochilina) brevis* (White)**

HYPOTYPE YPM 13154

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.215, tbl.(p.215), pl.24, f.1f,1g.

HYPOTYPE YPM 13166

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.215, pl.24, f.1a.

HYPOTYPE YPM 13200<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.215, pl.24, pl.27, f.7.

HYPOTYPE YPM 32879

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.215, pl.24, f.1b.

HYPOTYPE YPM 32880

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.215, pl.24, f.1c.

HYPOTYPE YPM 32881

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.215, tbl.(p.215), pl.24, f.1d,1h.

HYPOTYPE YPM 32882

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.215, pl.24, f.1e.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.***Soleniscus (Macrochilina) medialis*  
(Meek and Worthen)**

HYPOTYPE YPM 13155

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.217, tbl.(p.217), pl.25, f.4c.

HYPOTYPE YPM 13169

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.217, tbl.(p.217), pl.25, f.4b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. &amp; P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13170

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.217, tbl.(p.217), pl.25, f.4a.

Middle Pennsylvanian, Marmaton Grp, Fort Scott Limestone. Shale partings in the lower Fort Scott, C.R.I. &amp; P. Railroad cut, 200 yd E of railroad station, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13204<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.217, pl.27, f.9.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

***Soleniscus (Macrochilina) paludinaeformis***  
Hall

HYPOTYPE YPM 13153

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.213, tbl.(p.213), pl.23, f.2e,2f.<sup>a</sup>

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13167

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.213, tbl.(p.213), pl.23, f.2a.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13168

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.213, pl.23, f.2c.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13202<sup>b</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.213, pl.27, f.6.

HYPOTYPE YPM 32883

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.213, pl.23, f.2b.

HYPOTYPE YPM 32884

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.213, pl.23, f.2d.

HYPOTYPE YPM 32885

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.213, pl.23, f.2h.

HYPOTYPE YPM 32886

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.213, pl.23, f.2j.

HYPOTYPE YPM 32887

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.213, tbl.(p.213), pl.23, f.2k.

HYPOTYPE YPM 32888

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.213, tbl.(p.213), pl.23, f.2l,2m.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>Incorrectly cited as pl.23, f.2g in the table on p.213.

<sup>b</sup>This specimen is a thin section.

***Soleniscus (Macrochilina) primigenius***  
(Conrad)

HYPOTYPE YPM 13152

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.207, tbl.(p.208), pl.22, f.2h.

HYPOTYPE YPM 13172

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.207, tbl.(p.208), pl.22, f.2a,2b.

HYPOTYPE YPM 13203<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.207, pl.27, f.5.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 32889

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.207, pl.22, f.2c.

HYPOTYPE YPM 32890

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.207, pl.22, f.2d.

HYPOTYPE YPM 32891

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.207, pl.(p.208), pl.22, f.2e.

HYPOTYPE YPM 32892

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.207, pl.22, f.2i.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 32893

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.207, pl.22, f.2f.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

***Soleniscus (Macrochilina) regularis* (Cox)**

HYPOTYPE YPM 13157

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.220, pl.(p.221), pl.24, f.2m,2n.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13192

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.220, pl.24, f.2k.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13193

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.220, pl.24, f.2l.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13206<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.220, pl.27, f.10.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 32894

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.220, pl.(p.221), pl.24, f.2b.

HYPOTYPE YPM 32895

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.220, pl.24, f.2c.

HYPOTYPE YPM 32896

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.220, pl.24, f.2f.

HYPOTYPE YPM 32897

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.220, pl.(p.221), pl.24, f.2g.

HYPOTYPE YPM 32898

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.220, pl.24, f.2j.

HYPOTYPE YPM 32899

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.220, pl.(p.221), pl.24, f.2o.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

***Soleniscus (Macrochilina) schlotheimi* (d'Archiac and de Verneuil)**

HYPOTYPE YPM 5827<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, pl.26, f.7c.

HYPOTYPE YPM 32900<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, pl.26, f.7a,7b.

<sup>a</sup>Knight (1931) does not report a locality for this specimen. Furthermore, a thorough search of the collections by the curatorial staff in the 1990s could not locate this specimen. It is believed to be permanently lost.

***Soleniscus (Macrochilina) welleri* Knight**

HOLOTYPE YPM 13156

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.219, tbl.(p.219), pl.23, f.1a-d.

PARATYPE YPM 5826, 13173

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.219.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Soleniscus (Soleniscus) typicus* Meek and Worthen**

HYPOTYPE YPM 13159

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.204, tbl.(p.205), pl.22, f.1j.

= *Soleniscus typicus*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.324.

HYPOTYPE YPM 13165

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.204, pl.22, f.1a.

= *Soleniscus typicus*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.324, pl.93, f.2c.HYPOTYPE YPM 13201<sup>a</sup>

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.204, pl.27, f.8.

= *Soleniscus typicus*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.324.

HYPOTYPE YPM 25812

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.204, pl.22, f.1b.

= *Soleniscus typicus*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.324.

HYPOTYPE YPM 25813

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.204, tbl.(p.205), pl.22, f.1c.

= *Soleniscus typicus*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.324.

HYPOTYPE YPM 25814

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.204, pl.22, f.1d.

= *Soleniscus typicus*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.324.

HYPOTYPE YPM 25815

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.204, pl.22, f.1g.

= *Soleniscus typicus*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.324.

HYPOTYPE YPM 25816

Knight, J.B. 1931b. J. Paleont. v.5, n.3, p.204, pl.22, f.1i.

= *Soleniscus typicus*. Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.324.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

***Soleniscus typicus* Meek and Worthen**See *Soleniscus (Soleniscus) typicus* Meek and Worthen.***Spirorapha? corrugata* Twenhofel**

HOLOTYPE YPM 20496

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.240, pl.25, f.5.

PARATYPE YPM 20497

Twenhofel, W.H. 1928. Mem. Geol. Surv. Can. n.154, p.240.

Silurian, Jupiter Fm, Jupiter zone 5. Cormorant Point, Anticosti Island, Quebec, Canada. Collector: Twenhofel, W.H., 1909.

***Straparollina harpa* Hudson**SYNTYPE YPM 42971<sup>a</sup>

Hudson, G.H. 1905. Bull. New York St. Mus. n.80, p.292, pl.5, f.4.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.213, pl.53, f.13.

SYNTYPE YPM 42972<sup>a</sup>

Hudson, G.H. 1905. Bull. New York St. Mus. n.80, p.292, pl.5, f.5.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.213.

SYNTYPE YPM 42973<sup>a</sup>

Hudson, G.H. 1905. Bull. New York St. Mus. n.80, p.292.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.213.

Middle Ordovician, Chazy Grp. Valcour Island, Lake Champlain, Clinton Co., New York, USA. Collector: Raymond, P.E.

HYPOTYPE YPM 26541

Raymond, P.E. 1906a. Nautilus, v.19, n.9, p.101, tf.(p.102).

=*Holopea harpa*. Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.212, pl.55, f.16,17.

Middle Ordovician, Chazy Grp. Sloop Bay, Valcour Island, Clinton Co., New York, USA.

<sup>a</sup> A thorough search of the collections by the curatorial staff in the 1960s and 1990s could not locate this specimen. It is believed to be permanently lost.

***Straparollus (Amphiscapha) catilloides***  
(Conrad)

HYPOTYPE YPM 9315

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.9,10.

HYPOTYPE YPM 9316

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.11,12.

HYPOTYPE YPM 9317

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.14,13.

Upper Pennsylvanian, Canyon Grp, Wolf Mountain Shale Fm. Shutin Mountain, Palo Pinto Co., Texas, USA. Collector: Schindel, D.E.

***Straparollus (Euomphalus) catilloides***  
(Conrad)

HYPOTYPE YPM 14252<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155.

HYPOTYPE YPM 14252A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155, tbl.(p.156), pl.23, f.2d-2f.

Coalgate Quad. SW Sec33T5NR8E, . Middle Pennsylvanian, Desmoinesian, Marmaton Grp, Wewoka Fm. Oklahoma, USA. Collector: Hollingsworth, R.V.

HYPOTYPE YPM 14253<sup>b</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155.

Late Pennsylvanian, Missourian, Kansas City Grp, Chanute Shale. Along Turkey Creek, Kansas City, Jackson Co., Missouri, USA. Collector: Greger, D.K., 1919.

HYPOTYPE YPM 14254<sup>c</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155.

HYPOTYPE YPM 14254A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155, tbl.(p.156), pl.23, f.2g-2i.

Late Pennsylvanian, Shiastook Grp, Coffeyville Fm. Shale above Checkerboard Limestone, near Okfuskee, near center of sec22T13NR10E, Okfuskee Co., Oklahoma, USA. Collector: Greene, F.C.

HYPOTYPE YPM 14255

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155.

Pennsylvanian, Springer Fm?. 12,900 ft below top of the Pennsylvanian of the Arbuckles, apparently in basal Glenn Series (Springer Mbr), about 7 mi W and 2 mi S of Ardmore, S of Caddo Creek, 0.5 mi NE of Peabody locality B2036, Carter Co., Oklahoma, USA. Collector: Schuchert, C. and others, 1919.

HYPOTYPE YPM 14256<sup>d</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155.

HYPOTYPE YPM 14256A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155, tbl.(p.156), pl.23, f.2j-2l.

HYPOTYPE YPM 14256B<sup>e</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155, pl.26, f.4.

Pennsylvanian. 2200 ft above base of Pennsylvanian in basal Glenn Series (Springer Mbr), 2 mi W and 4 mi S of Ardmore, central E sec10T05SR01E, Carter Co., Oklahoma, USA. Collector: Schuchert, C. and others, 1919.

<sup>a</sup>This specimen lot is represented by seven individuals.

<sup>b</sup>This specimen lot is represented by four individuals.

<sup>c</sup>This specimen lot is represented by two individuals.

<sup>d</sup>This specimen lot is represented by 76 individuals and a thin section.

<sup>e</sup>This specimen is a thin section.

***Straparollus (Euomphalus) catillus*  
(Sowerby)**

HYPOTYPE YPM 14281

Knight, J.B. 1934a. J. Paleont. v.8, n.2, pl.20, f.2c,2d.

Mississippian, Mountain Limestone. Welton, Yorkshire, England, United Kingdom.

***Straparollus (Euomphalus) hollingsworthi*  
Knight**

HOLOTYPE YPM 14287A<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155, tbl.(p.155), pl.21, f.4d-4f.

PARATYPE YPM 14287B<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155, tbl.(p.155), pl.21, f.4a-4c.

PARATYPE YPM 14287C<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155, tbl.(p.155), pl.21, f.4g-4j.

PARATYPE YPM 14287D<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.155.

Middle Pennsylvanian, Desmoinesian, Krebs Grp, Boggy Shale. Pontotoc Co., Oklahoma, USA. Collector: Hollingsworth, R.V.

<sup>a</sup>This includes one specimen and two plaster casts.

***Straparollus (Euomphalus) muricatus*  
Knight**

HOLOTYPE YPM 14271A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.160, tbl.(p.160), pl.21, f.3a-3d.

PARATYPE YPM 14271<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.160.

PARATYPE YPM 14271B

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.160, tbl.(p.160), pl.21, f.3e-3f.

PARATYPE YPM 14271C<sup>b</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.160, tbl.(p.160), pl.26, f.3.

Early Permian, Council Grove Grp, Crouse Limestone. Hooser, Cowley Co., Kansas, USA. Collector: Gould, G.V.

PARATYPE YPM 14272<sup>c</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.160.

Early Permian, Council Grove Grp, Foraker Limestone. 1 mi S of Cushing, near M.K.T. Track, SW NW sec09T17NR05E, Payne Co., Oklahoma, USA. Collector: Greene, F.C.

PARATYPE YPM 14273

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.160.

Pennsylvanian, Belle Plains Fm. Bell Plains, Bell Co., Texas, USA. Collector: Greger, D.K.

<sup>a</sup>This specimen lot is represented by two individuals.

<sup>b</sup>This specimen is a thin section.

<sup>c</sup>This specimen lot is represented by 36 individuals.

***Straparollus (Euomphalus) pentangulatus*  
(Sowerby)**

HYPOTYPE YPM 14282

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.143, pl.20, f.3a,3b.

Mississippian, Mountain Limestone. Welton, Yorkshire, England, United Kingdom.

***Straparollus (Euomphalus) plummeri*  
Knight**

HOLOTYPE YPM 14247A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.152, tbl.(p.152), pl.22, f.3c-3e.

PARATYPE YPM 14247B

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.152, tbl.(p.152), pl.22, f.3f-3h.

Late Pennsylvanian, Canyon Grp, Graham Fm. Grayford, Texas, USA. Collector: Greger, D.K.

PARATYPE YPM 14250A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.152, tbl.(p.152), p.153, pl.22, f.3a,3b.

Late Pennsylvanian, Cherryvale Fm, Westerville Limestone Mbr. Westport, Jackson Co., Missouri, USA.

HYPOTYPE YPM 14245

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.152.

Middle Pennsylvanian, Strawn Grp. 330 ft below top of Strawn, Mineral Wells, Palo Pinto Co., Texas, USA. Collector: Schuchert, C., 1919.

HYPOTYPE YPM 14246<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.152, pl.26, f.7.

Late Pennsylvanian, Cisco Grp, Graham Fm, Jacksboro Limestone Mbr. 130 ft above Canyon Limestone, 10.5 mi SE of Graham on N Mineral Wells Tpk, Young Co., Texas, USA. Collector: Schuchert, C. and Bean, W.B., 1922.

HYPOTYPE YPM 14248<sup>b</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.152.

Late Pennsylvanian, Canyon Grp, Palo Pinto Limestone. Canyon 3 mi W of Strawn, Palo Pinto Co., Texas, USA. Collector: Schuchert, C., 1919.

HYPOTYPE YPM 14249<sup>c</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.152.

Late Pennsylvanian, Canyon Grp, Grafton Fm. Near base of Canyon, 13 mi W of Mineral Springs and 2 mi from Palo Pinto, Palo Pinto Co., Texas, USA. Collector: Schuchert, C., 1919.

HYPOTYPE YPM 14250<sup>d</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.152.

Late Pennsylvanian, Cherryvale Fm, Westerville Limestone Mbr. Westport, Jackson Co., Missouri, USA.

HYPOTYPE YPM 14251<sup>d</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.152.

Late Pennsylvanian, Missourian, Drum Limestone. Oolite, Kansas City, Missouri, USA. Collector: Dunbar, C.O., 1915.

HYPOTYPE YPM 14290<sup>c</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.152.

Late Pennsylvanian, Canyon Grp. Base of Canyon Fm, near Palo Pinto, Knox Co., Texas, USA. Collector: Greger, D.K.

<sup>a</sup>This specimen was sectioned and polished for mounting on a slide.

<sup>b</sup>This specimen lot is represented by five individuals.

<sup>c</sup>This specimen lot is represented by four individuals.

<sup>d</sup>This specimen lot is represented by two individuals.

***Straparollus (Euomphalus) reedsi* Knight**

HOLOTYPE YPM 14267A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, tbl.(p.159), pl.24, f.1a-1c.

PARATYPE YPM 14267

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159.

PARATYPE YPM 14267B

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, pl.24, f.4a-4c.

PARATYPE YPM 14267C

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, tbl.(p.159), pl.24, f.5a-5e.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 14268

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159.

Pennsylvanian. Springfield, Sangamon Co., Illinois, USA. Collector: Bradley, F.H.

PARATYPE YPM 14269

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159.

Pennsylvanian. Danville, Vermilion Co., Illinois, USA. Collector: Cockerton, F.T.

PARATYPE YPM 14270

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159.

Pennsylvanian. Elkhorn Creek, Pike Co., Kentucky, USA. Collector: Fischer, M.

PARATYPE YPM 14285

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159.

PARATYPE YPM 14285A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, tbl.(p.159), pl.24, f.2a-2c.

PARATYPE YPM 14285B

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, tbl.(p.159), pl.24, f.3a-3c.

PARATYPE YPM 14285C

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, tbl.(p.159), pl.24, f.6a-6e.

PARATYPE YPM 14285D

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, tbl.(p.159), pl.24, f.7a-7c.

PARATYPE YPM 14285E

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, pl.24, f.8a,8b.

PARATYPE YPM 14285F

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, pl.24, f.9a.

PARATYPE YPM 14285G

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, pl.24, f.9b.

PARATYPE YPM 14285H<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, pl.26, f.5a.

PARATYPE YPM 14285J<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, pl.26, f.5b.

PARATYPE YPM 14285K<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159, pl.26, f.5c.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 14286

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.159.

Middle Pennsylvanian, Strawn Grp, Mineral Wells Fm. Mineral Wells, Knox Co., Texas, USA. Collector: Greger, D.K.

<sup>a</sup>This specimen is a thin section.

***Straparollus (Euomphalus) serratus*  
Knight**

HOLOTYPE YPM 14289

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.154, tbl.(p.154), pl.20, f.4a-4c.

Pennsylvanian, Bend Grp. Shaly horizon 5-10 ft thick, horizon "at least 125 ft above the base of the Marble Falls Limestone" (Bean), 3.5 mi S of San Saba on Cherokee road, top of hill, just S of 1st crossing of Simpson Creek, San Saba Co., Texas, USA. Collector: Greger, D.K.

***Straparollus (Euomphalus) subquadratus*  
Meek and Worthen**

HYPOTYPE YPM 14277

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.162, pl.(p.162), pl.22, f.2c-2e.

Middle Pennsylvanian, Desmoinesian, Marmaton Grp, Wewoka Fm. Okmulgee, Okmulgee Co., Oklahoma, USA. Collector: Greger, D.K.

HYPOTYPE YPM 14278

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.162.

HYPOTYPE YPM 14278A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.162, pl.(p.162), pl.22, f.2a.

HYPOTYPE YPM 14278B

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.162, pl.26, f.2.

Late Pennsylvanian, Hoxbar Fm. 6 mi SW of Ardmore, Carter Co., Oklahoma, USA. Collector: Schuchert, C.

HYPOTYPE YPM 14279<sup>a</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.162.

HYPOTYPE YPM 14279A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.162, pl.22, f.2b.

Early Permian, Wolfcampian, Wolfcamp Fm. *Uddenites* Zone at Wolf Camp, Glass Mountains, Brewster Co., Texas, USA.

<sup>a</sup>This specimen lot is represented by two individuals.

***Straparollus (Euomphalus) subrugosus*  
Meek and Worthen**

HYPOTYPE YPM 14257<sup>a</sup>

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Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

HYPOTYPE YPM 14257A

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157, tbl.(p.158), pl.23, f.1d-1f.

HYPOTYPE YPM 14257B

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157, tbl.(p.158), pl.23, f.1g-1i.

HYPOTYPE YPM 14257C

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157, tbl.(p.158), pl.23, f.1j-1l.

HYPOTYPE YPM 14257D<sup>b</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157, pl.26, f.6a,6b.

Late Pennsylvanian, Cisco Grp, Graham Fm, Jacksboro Limestone Mbr. 130 ft above Canyon Limestone, 10.5 mi SE of Graham on N Mineral Wells Tpk, Young Co., Texas, USA. Collector: Schuchert, C. and Bean, W.B., 1922.

HYPOTYPE YPM 14258<sup>c</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

Late Pennsylvanian, Cisco Grp, Graham Fm, South Bend Shale Mbr. Above Bunker Limestone, this collection nearly all from the upper 25 ft of South Bend shales, 2 mi NE of South Bend, Bass Mountain outlier, Young Co., Texas, USA. Collector: Schuchert, C., 1922.

HYPOTYPE YPM 14259<sup>d</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

Pennsylvanian, Cisco Grp. 3 mi S and 0.5 mi E of Jacksboro, Jack Co., Texas, USA. Collector: Greger, D.K., 1919.

HYPOTYPE YPM 14260<sup>e</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

Late Pennsylvanian, Cisco Grp. 8 mi N of Jim Ned Creek, N of Brownwood, Brown Co., Texas, USA. Collector: Greger, D.K.

HYPOTYPE YPM 14261<sup>f</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

Late Pennsylvanian, Canyon Grp, Palo Pinto Limestone. Canyon 3 mi W of Strawn, Palo Pinto Co., Texas, USA. Collector: Schuchert, C., 1919.

HYPOTYPE YPM 14262<sup>g</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

Late Pennsylvanian, Cisco Grp, Graham Fm. Just beneath Gunsight Limestone Mbr. 2.5 mi SE of Gunsight, in railroad cut, locality 5 of map, Stephens Co., Texas, USA. Collector: Schuchert, C., 3/19/1922.

HYPOTYPE YPM 14263<sup>i</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

Late Pennsylvanian, Cisco Grp, Graham Fm, Gunsight Limestone Mbr. Near Gunsight, Stephens Co., Texas, USA. Collector: Greger, D.K.

HYPOTYPE YPM 14264<sup>h</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

Late Pennsylvanian, Cisco Grp, Graham Fm, Jacksboro Limestone Mbr. Jacksboro, Floyd Co., Texas, USA. Collector: Greger, D.K.

HYPOTYPE YPM 14265

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

Late Pennsylvanian, Brad Shale, Ranger Limestone Mbr. Ranger, Eastland Co., Texas, USA. Collector: Greger, D.K.

HYPOTYPE YPM 14266A, 14266B

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

Early Permian, Wolfcampian, Wolfcamp Fm. *Uddenites* Zone at Wolf Camp, Glass Mountains, Brewster Co., Texas, USA.

HYPOTYPE YPM 14288<sup>d</sup>

Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.157.

Middle Pennsylvanian, Desmoinesian, Krebs Grp, Boggy Shale. Pontotoc Co., Oklahoma, USA. Collector: Hollingsworth, R.V.

<sup>a</sup>This specimen lot is represented by 14 individuals.

<sup>b</sup>This specimen is a thin section.

<sup>c</sup>This specimen lot is represented by 15 individuals.

<sup>d</sup>This specimen lot is represented by eight individuals.

<sup>e</sup>This specimen lot is represented by 21 individuals.

<sup>f</sup>This specimen lot is represented by three individuals.

<sup>g</sup>This specimen lot is represented by 10 individuals.

<sup>h</sup>This specimen lot is represented by five individuals.

<b><i>Straparollus (Euomphalus) subsulcatus</i></b> Knight	<b><i>Straparollus (Straparollus) dionysii</i> ?</b> Montfort
HOLOTYPE YPM 14274A <sup>a</sup>	HYPOTYPE YPM 14280
Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.161, tbl.(p.161), pl.22, f.1d-1f.	Knight, J.B. 1934a. J. Paleont. v.8, n.2, pl.20, f.1.
PARATYPE YPM 14274B <sup>a</sup>	= <i>Straparolus dionysii</i> . Knight, J.B. 1941. Geol. Soc. Am. Spec. Pap. 32, p.337, pl.73, f.1b.
Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.161, tbl.(p.161), pl.22, f.1a-1b.	Mississippian, Mountain Limestone. Welton, Yorkshire, England, United Kingdom.
Pennsylvanian. Limy shale above Big Lime, N of Talala, SW corner sec15T24NR15E, Rogers Co., Oklahoma, USA. Collector: Greene, F.C.	<b><i>Straparollus (Straparollus) savagei</i> Knight</b>
PARATYPE YPM 14275 <sup>a</sup>	HOLOTYPE YPM 14296A
Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.161, tbl.(p.161), pl.22, f.1c.	Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.149, tbl.(p.150), pl.21, f.1b-1e.
Late Pennsylvanian, Kansas City Grp. Shale above sandstone above Checkerboard(?) Limestone (basal Kansas City), NW sec29T13NR10E, Oklahoma, USA. Collector: Greene, F.C.	Quaternary, Recent. From Flatter Cone Spring, Yellowstone National Park, Wyoming, USA.
PARATYPE YPM 14276 <sup>a</sup>	PARATYPE YPM 14243 <sup>a</sup>
Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.161.	Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.149.
Pennsylvanian. Shaly limestone above Big Lime, west of Bixby, Tulsa Co., Oklahoma, USA. Collector: Greene, F.C.	PARATYPE YPM 14243A
<sup>a</sup> This includes one specimen and two plaster casts.	Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.149, tbl.(p.150), pl.21, f.1a.
<b><i>Straparollus (Euomphalus) umbilicatus</i></b> (Meek and Worthen)	Pennsylvanian, Bend Grp, Smithwick Shale. Just above the shale with limestone lenses, E of San Saba, San Saba Co., Texas, USA. Collector: Schuchert, C., 1/8/1927.
HYPOTYPE YPM 14244	PARATYPE YPM 14296 <sup>b</sup>
Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.151, pl.21, f.2b.	Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.149.
Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Base of Pawnee exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.	PARATYPE YPM 14296B
HYPOTYPE YPM 14295	Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.149, tbl.(p.150).
Knight, J.B. 1934a. J. Paleont. v.8, n.2, p.151, tbl.(p.151), pl.21, f.2c-2e	Quaternary, Recent. From Flatter Cone Spring, Yellowstone National Park, Wyoming, USA.
Middle Pennsylvanian, Marmaton Grp, Fort Scott Limestone. Shale partings in the Lower Fort Scott, C.R.I. & P. Railroad cut, 200 yd E of railroad station, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.	<sup>a</sup> This specimen lot is represented by two individuals.
	<sup>b</sup> This specimen lot is represented by four individuals.
	<b><i>Straparolus dionysii</i> Montfort</b>
	See <i>Straparollus (Straparollus) dionysii</i> Montfort.
	<b><i>Streptacis crenimarginis</i> Knight</b>
	HOLOTYPE YPM 13012
	Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.13, tbl.(p.13), pl.2, f.3c.
	PARATYPE YPM 13111

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.13, pl.2, f.3b.

PARATYPE YPM 25808

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.13, pl.2, f.3a.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 25809<sup>a</sup>

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.13, tf.1.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

### *Streptacis meeki* Knight

HOLOTYPE YPM 13013

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.14, tbl.(p.14), pl.1, f.2a.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 13014

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.14, pl.1, f.2b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

### *Streptacis permiana* (Beede)

HYPOTYPE YPM 15345

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.313, pl.9, f.2a.<sup>a</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of

Dozier, sec 43, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

<sup>a</sup>The wax cast figured on pl.9, f.2a is missing.

### *Streptacis scalpta* Knight

HOLOTYPE YPM 13011

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.12, tbl.(p.12), pl.2, f.4a, 4b.

PARATYPE YPM 13112

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.12.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

PARATYPE YPM 25807<sup>a</sup>

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.12, tf.1k.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

### *Streptacis whitfieldi* Meek

HYPOTYPE YPM 13010

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.12, tbl.(p.12), pl.2, f.1.

HYPOTYPE YPM 13113

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.12.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13123<sup>a</sup>

Knight, J.B. 1931a. J. Paleont. v.5, n.1, p.12, tf.1j.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Upper 4 ft of undifferentiated Labette Shale exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P.

Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

***Strophostylus (Anematina) minutissimus* Knight**

HOLOTYPE YPM 13855

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.47, tbl.(p.47), pl.8, f.1d.

PARATYPE YPM 13884

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.47, tbl.(p.47), pl.8, f.1c.

PARATYPE YPM 32935

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.47, pl.8, f.1e,1f.

PARATYPE YPM 32936

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.47, tbl.(p.47), pl.8, f.1g,1h.

PARATYPE YPM 32945

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.47, tbl.(p.47), pl.8, f.1a,1b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Red zone, 2-4 ft below top of Labette, exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Subulites prolongatus* Raymond**

HOLOTYPE YPM 26986

Raymond, P.E. 1905. Am. J. Sci. v.170, p.378.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.211, pl.54, f.13.

Middle Ordovician, Chazy Grp. Sloop Bay, Valcour Island, Clinton Co., New York, USA. Collector: Raymond, P.E.

***Subulites raymondi* Hudson**

HOLOTYPE YPM 26188

Hudson, G.H. 1905. Bull. New York St. Mus. n.80, p.293, pl.4, f.1,2.

=*Cyrtospira raymondi*. Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.218, pl.54, f.14,15.

Middle Ordovician, Chazy Grp. Valcour Island, Lake Champlain, Clinton Co., New York, USA. Collector: Raymond, P.E.

***Surcula nelsoni* Olsson**

See *Pleurotoma* sp. ind.

***Taosia dozierensis* (Beede)**

HYPOTYPE YPM 15342

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.310, pl.9, f.1b.<sup>a</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Base of Dozier on summit of Mt. Nebo on the N side of highway, 3 mi W of Estelline (Hall Co.), Collingsworth Co., Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 15343

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.310, pl.9, f.1c.<sup>b</sup>

Early Permian, Whitehorse Grp. Texas, USA. Collector: Roth, R.I.

HYPOTYPE YPM 15344

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.310, pl.9, f.1d.<sup>c</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Dolomite beds at base of Dozier, sec 43, block 19, H.G.&N. Survey, Collingsworth Co., Texas, USA. Collector: Roth, R.I.

<sup>a</sup>The wax cast figured on pl.9, f.1b is missing.

<sup>b</sup>The figured specimen is a wax cast of a natural mold.

<sup>c</sup>The wax cast figured on pl.9, f.1d is missing.

***Terebra tuberosa* (Nelson)**

See *Myurella tuberosa* Nelson.

***Terebra (Strioterebrum) nelsoni* (Nelson)**

See *Myurella tuberosa* Nelson.

***Trachydoma nodosum* (Meek and Worthen)**

HYPOTYPE YPM 14162

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.383, tbl.(p.383), pl.45, f.2e,2f.

HYPOTYPE YPM 25834

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.383, tbl.(p.383), pl.45, f.2g.

HYPOTYPE YPM 25835

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.383, tbl.(p.383), pl.45, f.2h,2i.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

***Trachydoma nodulosum* Worthen**

HYPOTYPE YPM 13893A

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.389, tbl.(p.389), pl.46, f.3a,3b.

HYPOTYPE YPM 13893B

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.389, tbl.(p.389).

Pennsylvanian. Peoria Co., Illinois, USA. Collector: Marsh, O.C.

***Trachydoma oweni* Knight**

HOLOTYPE YPM 14164

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.387, tbl.(p.387), pl.46, f.4b.

PARATYPE YPM 25838

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.387, tbl.(p.387), pl.46, f.4a.

Middle Pennsylvanian, Desmoinesian, Cherokee Shale. Garland, Henry Co., Missouri, USA. Collector: Owen, J.

***Trachydoma sayrei* Knight**

HOLOTYPE YPM 14163

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.385, tbl.(p.386), pl.45, f.4a,4c.

PARATYPE YPM 25836

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.385, tbl.(p.386), pl.45, f.4b.

PARATYPE YPM 25837

Knight, J.B. 1933b. J. Paleont. v.7, n.4, p.385, tbl.(p.386), pl.45, f.4d.

Late Pennsylvanian, Missourian, Cherryvale Fm, Westerville Limestone Mbr. Westerville oolite, Kansas City, Missouri, USA. Collector: Dunbar, C.O., 1915.

***Tremanotus longitudinalis* Lindström**

HYPOTYPE YPM 13316

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.207, pl.21, f.6.

Middle Silurian, Niagaran, Bouleaux Fm. Shore W side of Pointe Bouleaux extending into Anse-aux-Gascons, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Tremanotus minutus* Northrop**

HOLOTYPE YPM 13319

Northrop, S.A. 1939. Geol. Soc. Am. Spec. Pap. 21, p.208, pl.21, f.1-4.

Middle Silurian, Niagaran, West Point Fm, West Point Member I. At lighthouse, West Point, Quebec, Canada. Collector: Northrop, S.A., 1927.

***Trepospira (Angyomphalus) bella* Tyler**

HOLOTYPE YPM 16479

Tyler, J.H. 1965. J. Paleont. v.39, n.3, p.342, pl.47, f.22-24.

Middle Devonian, Hamilton Grp, Ludlowville Fm, Centerfield Limestone Mbr. Bioherm facies, Four Mile Dam on Thunder Bay River, SW SE sec007T31NR08E, Alpena Co., Michigan, USA. Collector: Cloud, P.E. and Yang, Z., 1938.

***Tritonophon* sp.**

HYPOTYPE YPM 75<sup>a</sup>

Peel, J.S. 1974. Bull. Geol. Soc. Denmark v.23, p.260, pl.2, f.8.

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.16.

Early Silurian, Llandoveryan, Ross Brook Fm, Ross Brook Upper Mbr. 6 in silty shale, in place, 1289 ft above base of Arisaig Grp section, exposed along shore approx. 275 ft E of mouth of French Brook, approx. 0.5 mi W of the mouth of Arisaig Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

HYPOTYPE YPM 28343

Peel, J.S. 1974. Bull. Geol. Soc. Denmark v.23, p.260, pl.2, f.23.

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.16.

Middle Silurian, French River Fm. About 0.5 mi S of Rt. 4 bridge on E bank [fourth bend of river] of French River, 1520 ft above Arisaig Grp section base [stratigraphically 15 ft below Peabody

locality A3777], Pictou Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

HYPOTYPE YPM 28350

Peel, J.S. 1974. Bull. Geol. Soc. Denmark v.23, p.260, pl.2, f.27.

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.16.

Middle Silurian, Ross Brook Fm, Ross Brook Upper Mbr. 12 in thick mudstone, in place, 1252-1253 ft above base of Arisaig Grp section along Northumberland Strait shore, approx. 425 ft E of mouth of Ross Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

<sup>a</sup>This includes one specimen (a natural mold) and a silicon rubber impression.

#### ***Tritonophon trilobata* (Sowerby)**

HYPOTYPE YPM 28347<sup>a</sup>

Peel, J.S. 1974. Bull. Geol. Soc. Denmark v.23, p.256, pl.2, f.20.

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.15.

Silurian, Moydart Fm. At Sutherland River, 2385 ft elevation, Pictou Co., Nova Scotia, Canada. Collector: Maehl, R.H., 1959.

<sup>a</sup>This includes one specimen (a natural mold) and a silicon rubber impression.

#### ***Trochonema biangulatum* (Hall)**

HYPOTYPE YPM 26982

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.205, pl.53, f.9,10.

Middle Ordovician, Chazy Grp. S end of Valcour Island, Clinton Co., New York, USA.

#### ***Trochonema hudsoni* (Raymond)**

See *Holopea hudsoni* Raymond.

#### ***Trochonema* sp.**

HYPOTYPE YPM 25926<sup>a</sup>

Bretsky, P.W. 1970. Bull. Peabody Mus. Nat. Hist. n.34, p.110, pl.17, f.6.

Late Ordovician, Reedsville Fm. Ferruginous stained sandstone, roadcut 2.5 mi SE of McConnellsburg, along PA Rt. 16, Bedford Co., Pennsylvania, USA. Collector: Bretsky, P.W., 6/1966.

<sup>a</sup>This includes a natural mold, a natural cast, and a latex impression.

#### ***Turbo belli* Spieker**

See *Callopoma lineatum* Nelson.

#### ***Umbospira yochelsoni* Peel**

HOLOTYPE YPM 28330

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.22, pl.2, f.6.

Early Silurian, Llandoveryan, Ross Brook Fm, Ross Brook Upper Mbr. Shale and silty shale, in place 1275 ft above base of Arisaig Grp section, exposed along shore approx. 300 ft E of mouth of French Brook, approx. 0.5 mi W of the mouth of Arisaig Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

#### **undet. Acteonidae**

HYPOTYPE YPM 14858

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.403, pl.5, f.21,22.

Late Cretaceous. Loose boulder brought up in a fisherman's trawl, from a depth of 200 fathoms, eastern part of Banquereau bank, off Sable Island, Nova Scotia, Canada. Collector: Olson, L.

#### **undet. Bellerophontacea**

HYPOTYPE YPM 28348

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.21, pl.1, f.30.

Middle Silurian, French River Fm. About 0.5 mi S of Rt. 4 bridge on E bank [fourth bend of river] of French River, 1535 ft above Arisaig Grp section base [stratigraphically 15 ft above Peabody locality A3775], Pictou Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

#### **undet. Gastropoda**

HYPOTYPE YPM 14860

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.403, pl.5, f.23.

Late Cretaceous. Loose boulder brought up in a fisherman's trawl, from a depth of 200 fathoms, eastern part of Banquereau bank, off Sable Island, Nova Scotia, Canada. Collector: Olson, L.

See also *Goniostropha* ? sp.

#### **undet. Gyrinematinae**

HYPOTYPE YPM 28346

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.30, pl.3, f.19.<sup>a</sup>

Silurian, Moydart Fm. At Sutherland River, 2385 ft elevation, Pictou Co., Nova Scotia, Canada. Collector: Maehl, R.H., 1959.

<sup>a</sup>The specimen figured on pl.3, f.19 is a silicon rubber impression of a natural mold.

### undet. *Holopeinæ*

HYPOTYPE YPM 28336

Peel, J.S. 1977. Det Kong. Danske Viden. Selskab v.21, n.2, p.29, pl.3, f.10.

Early Silurian, Llandoverian, Ross Brook Fm, Ross Brook Middle Mbr. Gray silty shale, in place, 985 ft above base of Arisaig Grp section, exposed in first prominent seaward projecting cliff W of the mouth of Arisaig Brook, Antigonish Co., Nova Scotia, Canada. Collector: Bambach, R.K., 1964/1965.

### undet. *Turbinidae*

HYPOTYPE YPM 13863

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.56, pl.10, f.4a,4b.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of Feefee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

### *Valvata gregorii* Robinson

HOLOTYPE YPM 17849

Robinson, W.I. 1915. Am. J. Sci. v.190, p.649, tf.1d,e.

Late Triassic, Dolores Limestone. 4 mi NE of Black Falls, Coconino Co., Arizona, USA. Collector: Gregory, H.E., 1913.

### *Valvata tricarinata* (Say)

HYPOTYPE YPM 12825A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.245, pl.2, f.4a.

HYPOTYPE YPM 12825B

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.245, pl.2, f.4b.

HYPOTYPE YPM 12825C

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.245, pl.2, f.4c.

HYPOTYPE YPM 12825D

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.245, pl.2, f.4d.

Quaternary, Recent. Wabash time, a pit excavated in a hollow, a short distance NE of the Park Lane schoolhouse, 1.75 mi N of New Milford, Litchfield Co., Connecticut, USA. Collector: Cooper, G.A.

### *Vertigo ovata* Say

HYPOTYPE YPM 12839

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.253, pl.4, f.2.

HYPOTYPE YPM 12839A

Cooper, G.A. 1930b. Bull. Conn. Geol. Nat. Hist. Surv. n.47, p.253.

Quaternary, Recent. Wabash time, a pit excavated in a hollow, a short distance NE of the Park Lane schoolhouse, 1.75 mi N of New Milford, Litchfield Co., Connecticut, USA. Collector: Hunt, C.B.

### *Viviparus montanaensis* Stanton

HYPOTYPE YPM 35572<sup>a</sup>

Stanton, T.W. 1903. Proc. Am. Phil. Soc. v.42, n.173. p.195.

Cretaceous, Benton Fm. Freshwater mollusk assemblage, ranch of Joe Wettacombe, near Musselshell River, and near Harlowton, E of Crazy Mountain, and S of Big Snowy Mountain, Wheatland Co., Montana, USA. Collector: Farr, M.S. and Silberling, A.C., 8/7/1902.

<sup>a</sup>This specimen lot is represented by 210 individuals.

### *Voluta(?) eomagna* Vokes

HYPOTYPE YPM 30890

Vokes, H.E. 1939. New York Acad. Sci. Ann. v.38, p.135.

Tertiary, Eocene. Mouth of St. Clemente Canyon, 3 mi SE of La Jolla, San Diego Co., California, USA. Collector: Sternberg, C.B.

### *Volutoderma? venusta* Stephenson

HOLOTYPE YPM 14855

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.402, pl.5, f.17,18.

PARATYPE YPM 14856

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.402.<sup>a</sup>

Late Cretaceous. Loose boulder brought up in a fisherman's trawl, from a depth of 200 fathoms, eastern part of Banquereau bank, off Sable Island, Nova Scotia, Canada. Collector: Olson, L.

<sup>a</sup>Cited as two specimens but only one is present.

### ***Worthenia beedei* Knight**

HOLOTYPE YPM 15341

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51, p.305, pl.8, f.2.<sup>a</sup>

Late Permian, Whitehorse Grp, Rush Springs Fm, Dozier Sandstone Mbr. Base of Dozier on summit of Naco Butte (Mt. Nebo) on N side of highway, 3 mi W of Estelline (Hall Co.), Collingsworth Co., Texas, USA. Collector: Roth, R.I.

<sup>a</sup>The wax cast figured on pl.8, f.2 is missing.

### ***Worthenia tabulata* (Conrad)**

HYPOTYPE YPM 9314

Schindel, D.E., G.J. Vermeij, and E. Zipser. 1982. J. Paleont. v.56, n.3, pl.1, f.8.

Upper Pennsylvanian, Cisco Grp, Wayland Shale Fm. Parks Mountain, Coleman Co., Texas, USA. Collector: Schindel, D.E.

### ***Yunnania subsinuata* (Meek and Worthen)**

HYPOTYPE YPM 13857

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.49, tbl.(p.50), pl.10, f.2a.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Green zone, upper 8-12 in of Labette exposed along headwater branches of FeeFee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13887

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.49, tbl.(p.50), pl.10, f.2b,2c.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 13888<sup>a</sup>

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.49, pl.12, f.9.

Middle Pennsylvanian, Marmaton Grp, Labette Shale. Top of Labette exposed along headwater branches of FeeFee Creek, 0.6 mi W of Lackland Station, C.R.I. & P. Railroad, 1 mi NW of Stratman, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

HYPOTYPE YPM 32944

Knight, J.B. 1933a. J. Paleont. v.7, n.1, p.49, tbl.(p.50), pl.10, f.2d,2e.

Middle Pennsylvanian, Marmaton Grp, Pawnee Limestone. Decomposed blocks and residual from lower 2 ft of Pawnee exposed in street making in Davis Place subdivision first street W of Kirkwood-Ferguson trolley tracks and 200 ft N of Clayton Road, Clayton, St. Louis Co., Missouri, USA. Collector: Knight, J.B.

<sup>a</sup>This specimen is a thin section.

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